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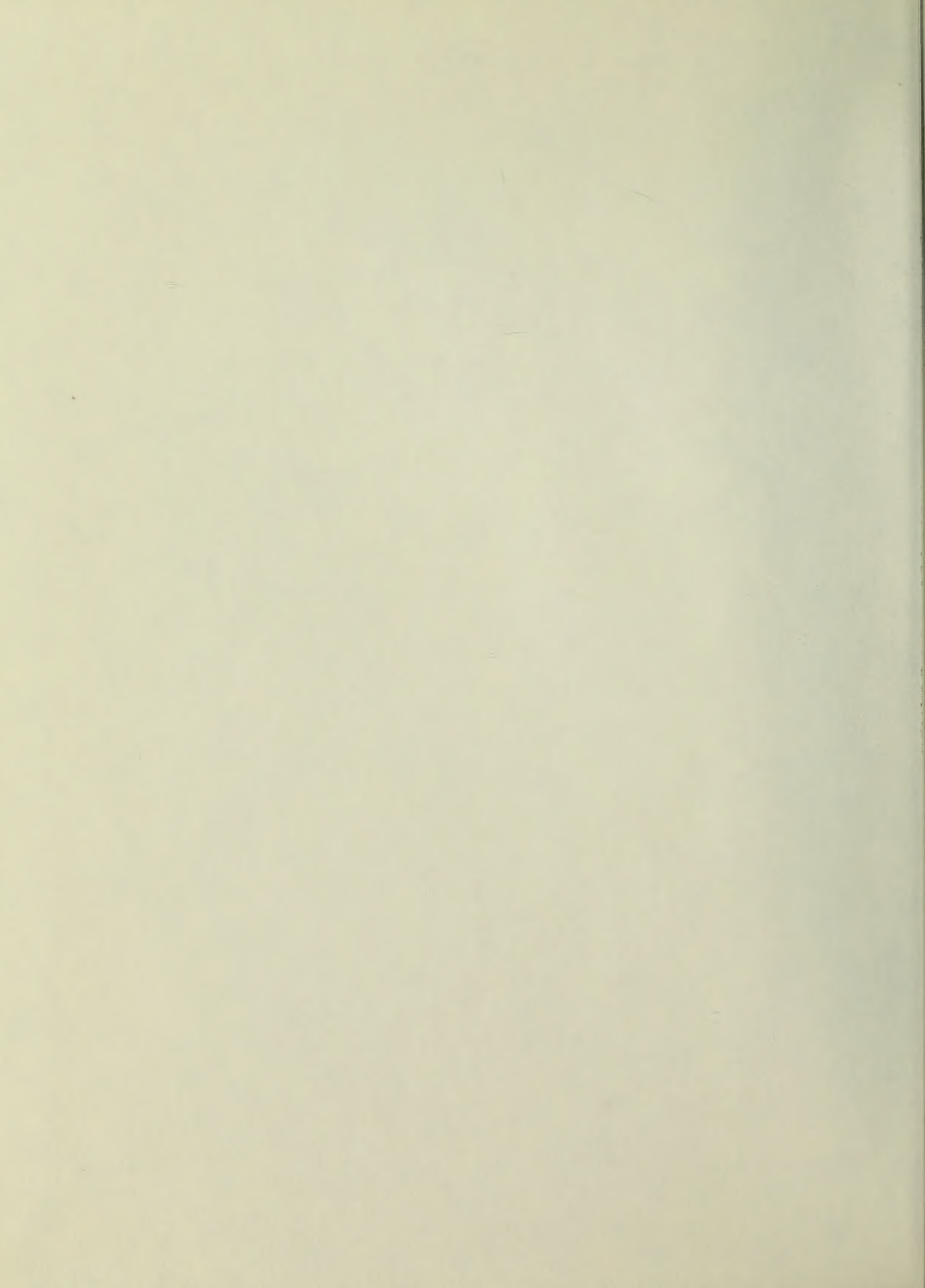
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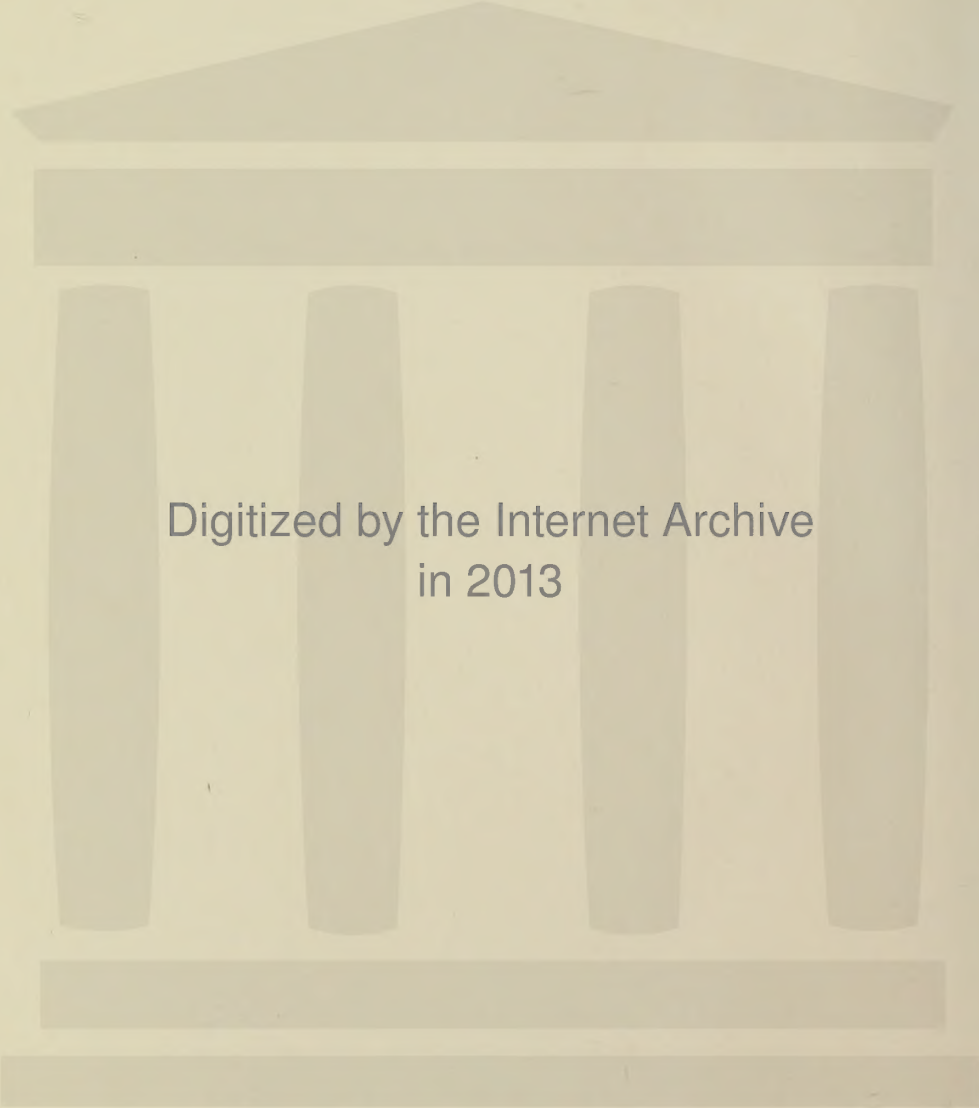
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ENDOCRINOLOGY INDEX

National Institute of Arthritis,
Metabolism, and Digestive Diseases

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U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are

numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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**National Institute of Arthritis,
Metabolism, and Digestive Diseases**

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

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IV Thyroid Antagonists and Inhibitors

CARBIMAZOLE

ADMINISTRATION & DOSAGE

Recovery of initially suppressed thyroidal radiolodine uptake during long-term antithyroid treatment of euthyroid volunteers and hyperthyroid patients. Studer H, et al.

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III. Adrenal Cortex Hormones, Precursors, Metabolites and Synthetic Analogs

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SPIRONOLACTONE

ADMINISTRATION & DOSAGE

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V. Adrenal Medulla

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DOPA

ADMINISTRATION & DOSAGE

Distribution of DOPA-2- 14 C in relation to DOPA-1- 14 C (carboxyl- 14 C-labelled DOPA) in mice before and after inhibition of DOPA-decarboxylase, studied by whole-body autoradiography. Tjälve H, et al.
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[Dopamine and dopa as indices of reserve potential of the sympatho-adrenal system in pulmonary heart]
Syvomiatiukova NV, et al.
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DOPAMINE

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EPINEPHRINE

ANALYSIS

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Adaptation of the adrenal medulla: sustained increase in choline acetyltransferase by psychosocial stimulation. Goldberg AM, et al.
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Clinical aspects of pheochromocytoma. Ross EJ.
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Role of GTP in epinephrine and glucagon activation of adenylyl cyclase of liver plasma membrane. Leray F, et al.
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HYDROXYDOPAMINE

ADMINISTRATION & DOSAGE

Long-term effects of postnatal 6-hydroxydopamine treatment on tissue catecholamine levels. Lytle LD, et al. *J Pharmacol Exp Ther* 183:56-64, Oct 72

PHARMACODYNAMICS

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NOREPINEPHRINE

ANALYSIS

Pharmacological aspects of peripheral noradrenergic transmission. Potter WP de, et al. *Arch Int Pharmacodyn Ther* 196:Suppl 196:258-, Apr 72 (97 ref.)

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11. Disorders of the Gonads

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Prescribing ethyloestrenol. Montuschi E.
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PHARMACODYNAMICS

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CHEMICAL SYNTHESIS

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Maternal ageing and embryonic mortality in the rabbit. II. Hormonal changes in young and ageing females. Maurer RR, et al. *J Reprod Fertil* 31:15-22, Oct 72

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MEDROXYPROGESTERONE

ADMINISTRATION & DOSAGE

- Fibrinolytic activity of veins during treatment with medroxyprogesterone acetate. Astedt B.
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- Mammary tumorigenesis by subcutaneous administration of a mixture of megestrol acetate and ethynylestradiol in Wistar rats. Hisamatsu T.
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ADVERSE EFFECTS

- Pyometritis in spayed cats. Orhan UA.
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II. Disorders of the Placenta

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PARATHYROID AND BONE

I. Physical and Functional Aspects

PARATHYROID GLANDS

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Effect of calcium ion on horse parathyroid gland adenyl cyclase. Matsuzaki S, et al.
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Selenium labelled toluidine blue as an agent for parathyroid scanning. Theoretic considerations.
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11. Disorders of the Parathyroid Glands

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- Calcitonin in the treatment of hypercalcaemic crisis. Bergqvist E, et al. *Acta Med Scand* 192:385-9, Nov 72
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- Dihydratichysterol and vitamin D resistance in renal failure. Sagar S, et al.
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- Idiopathic hypoparathyroidism in a girl with Turner's syndrome. Tuvemo T, et al.
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- Hyperparathyroidism: an early historical survey. Rowlands BC. *Ann R Coll Surg Engl* 51:81-90, Aug 72

IMMUNOLOGY

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PARATHYROID AND BONE

METABOLISM

Secondary hyperparathyroidism in young rats given prolonged treatment with calcitonin. Sorensen OH, et al. *Acta Endocrinol (Kbh)* 71:313-20, Oct 72
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HYPERPARATHYROIDISM, SECONDARY

BLOOD

Parathyroid acidosis in uraemia. Muldowney FP, et al. *Q J Med* 41:321-42, Jul 72

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Osteosclerosis in hyperparathyroidism. Eugenidis N, et al. *Radiology* 105:265-75, Nov 72

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ETIOLOGY

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BLOOD

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The endocrines and arthritis. Grahame R. *Rheumatol Phys Med* 11:325-33, Aug 72 (53 ref.)
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DRUG THERAPY

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ENZYMOLGY

CPK activity in hypoparathyroidism. Hower J, et al. *N Engl J Med* 287:1098, 23 Nov 72

PARATHYROID AND BONE

ETIOLOGY

Selection of surgical treatment for well differentiated thyroid carcinomas. Buckwalter JA, et al.
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PARATHYROID DISEASES

DIAGNOSIS

Occult hyperparathyroidism presenting as a parathyroid cyst. Howell A, et al.
Proc R Soc Med 65:881-2, Oct 72

PATHOLOGY

Chronic renal failure in a patient with parathyroid carcinoma and hyperplasia. Walls J, et al.
Beitr Pathol 147:45-50, 1972
[Histopathological changes in non-arteriosclerotic calcinosis of the cerebral vessels] Ota T, et al.
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PARATHYROID GLANDS

ABNORMALITIES

On the threshold of biologic engineering. Good RA.
Am J Med Technol 38:153-62, May 72 (52 ref.)

PARATHYROID NEOPLASMS

Hyperfunctioning carcinoma of the parathyroid gland.
Gale TC, et al. Postgrad Med J 48:626-31, Oct 72
[Cancer of the parathyroids. Apropos of a case] Hioco DJ, et al.
Sem Hop Paris 48:2019-32, 14 Jun 72 (Eng. Abstr.) (Fre)

BLOOD

Radioimmunoassay of parathyroid hormone in man.
Buckle RM. J Endocrinol 54:18-9, Sep 72

COMPLICATIONS

Monoclonal IgG gammopathy and hyperparathyroidism. Dexter RN, et al.
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Chirurgia (Bucur) 20:1039-45, Nov 71 (Eng. Abstr.) (Rum)

DIAGNOSIS

Selenium labelled toluidine blue as an agent for

parathyroid scanning. Theoretic considerations.
Brien TG.

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ENZYMOLGY

The twenty-four excretion of trypsin and trypsinogen in the urine. Romero F, et al.
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METABOLISM

Selenium labelled toluidine blue as an agent for parathyroid scanning. Theoretic considerations.
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PATHOLOGY

A case of unusual stromal development in a parathyroid adenoma. Grimellus L, et al.
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Parathyroid adenoma and gastric acid secretion.
Christiansen J, et al.
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SURGERY

Stroke in hyperparathyroidism. Boström H, et al.
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[Cancer of the parathyroids. Apropos of a case] Hioco DJ, et al.
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III. Parathyroid Hormone

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Carbonic anhydrase inhibitors, parathyroid hormone and calcium metabolism. Waite LC.

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The following citations were taken from the July through December 1972, issues of the Bulletins of the UCLA Brain Information Service, which is part of the NINDS Neurological Information Network. Citations which appear elsewhere in the Endocrinology Index, or are not closely related to endocrinology have been deleted.

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PSYCHOPHYSIOLOGICAL STUDIES OF EMOTION AND MENTAL DISORDERS, by Nozomi Suwa and Itaru Yamashita. Hokkaido University Medical Series, Vol. 5. Sapporo, Japan, Hokkaido University School of Medicine, 1972. 229 pp. Biomed. WM 90 S955p 1972

(2) New Journals

CLINICAL ENDOCRINOLOGY, ed. by A. Stuart Mason and Maurice Lessof. Oxford, England, Blackwell Scientific Publications. Quarterly (Jan., April, July, October) \$27.00 per year.

The human endocrine system in health and disease is the main topic of interest. "In addition there are review articles concerned with the growing points of endocrinology. These reviews may be concerned with research into the physiological disorders of human endocrine disease or with the methods most relevant for the diagnosis or treatment of these disorders."

PROSTAGLANDINS, ed. by Gerald G. Anderson, Burton V. Caldwell and Leon Speroff. Los Altos, California, Geron-X, Inc. Monthly. \$30 per year.

(1) Books and Reviews

- Blaschko H, Muscholl E, eds. (Univ. Dept. Pharmacology, South Parks Rd., Oxford OX1 3QT, Great Britain) Catecholamines; Handbook of Experimental Pharmacology, Vol. 33. Berlin, Springer-Verlag. pp. 1-1054, 1972.
- Costa E, Iversen LL, Paoletti R, eds. Studies of Neurotransmitters at the Synaptic Level. Advances in Biochemical Psychopharmacology, Volume 6. Raven Press, New York, 1972.
- de la Torre JC (Div. Neurological Surgery, Univ. Chicago, Pritzker School of Medicine, Chicago, IL) Dynamics of Brain Monoamines. New York, Plenum Press. pp. 1-210, 1972.
- Marks N, Rodnight R eds. Research Methods in Neurochemistry, Vol. 1. New York, Plenum Press. pp. 1-368, 1972. (Included are sections on the assay of biogenic amines and their deaminating enzymes, and on purification and localization of enzymes involved in catecholamine biosynthesis.)
- McGaugh JL ed. (Dept. Psychobiology, School Biological Sciences, Univ. California, Irvine, CA) The Chemistry of Mood, Motivation, and Memory. The proceedings of an interdisciplinary conference on the Chemistry of Mood, Motivation, and Memory held at the University of California, San Francisco, October 1971. Plenum Press, New York. pp. 1-231, 1972. (Partial Contents: p. 65. Brain catecholamines, affective states and memory. S.S. Kety. p. 81. Noradrenergic reward mechanisms, recovery of function, and schizophrenia. L. Stein. p. 105. Some macromolecular mechanisms in central nervous system neurotransmitter pharmacology and their psychobiological organization. A.J. Mandell, D.S. Segal, R.T. Kruczenski, and S. Knapp. p. 198. The cholinergic synapse and the site of memory. J.A. Deutsch.)
- Rall JE, Kopin IJ, eds. The Thyroid and Biogenic Amines. Amsterdam, North Holland Publishing Company. Methods Invest Diagnos Endocrinol 1:1-685, 1972.
- Snyder SH, ed. (Dept. Pharmacology and Experimental Therapeutics, Johns Hopkins Univ. School of Medicine, Baltimore, MD) Perspectives in Neuropharmacology -- A Tribute to Julius Axelrod. New York, Oxford Univ. Press, 1972. 404 pp.
- Steiner G, Schönbaum E, eds. (Diabetes Sub-Division, Toronto General Hospital, Toronto, Canada) Immunosympathectomy. Amsterdam. Elsevier. pp. 1-253, 1972. (Partial Contents: p. 79. Ontogenesis of the adrenergic neuron. B. Mirkin. p. 97. The effect of immunosympathectomy on catecholamine metabolism. E. Schönbaum. A. Shumm, K.V. Flattery, G.E. Johnson

E.A. Sellers. p. 111. Immunosympathectomy and biogenic amines. G.I. Klingman and J.D. Klingman. p. 147. Immunosympathectomy and serotonin. J.H. Thompson.)

(2) Methods

L'Hermite P, Gautron J, Lesbats B (Lab. Cytologie, Centre de Microscopie électronique, Pavillon Risler, Hôpital. de la Salpêtrière, 47, blvd. l'Hôpital, F. 75-Paris-13, France). (Fluorescence microscopy used as evidence of the presence of indoleamines and catecholamines in adrenergic fibers of the central and peripheral nervous systems). Mise en évidence par la microscopie de fluorescence, des amines indoliques et catechiques dans les fibres adrénergiques du système nerveux central et périphérique J Pharmacol (Paris) 3(3): 375-384, 1972 (Fre)

L'Hermite P, Israel M (Lab. Cytologie, Centre de Microscopie électronique, Pavillon Risler, Hôpital de la Salpêtrière, 47, blvd. l'Hopital, F. 75-Paris-13, France). (Preliminary fractionation for the study of the subcellular distribution of noradrenaline). Fractionnement préalable a l'étude de la distribution subcellulaire de la noradrenaline. J Pharmacol (Paris) 3(3):385-391, 1972 (Fre).

(3) Localization

Reprintseva VM (Effect of reserpine on the regional distribution of nor-adrenaline in rat brain before and after mechanical stimulation of inter-receptors and exteroceptors) In: (Mechanism of Neural and Humoral Regulations) ed. by I.A. Bulygin, A.A. Zaporozhets, A.P. Amvros'ev, E.G. Dediulia, A.S. Dmitriev, V.N. Kaliunov, K.V. Fomichenko. Minsk, Nauka I Tekhnika. pp. 167-170, 1971 (Rus).

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(4) Amine Metabolism/Biochemical Studies

Bell RW, Rolsten C (Northern Illinois Univ., DeKalb, IL 60115) Developmental effects of variable population density and dietary protein sufficiency upon morphology, neurochemistry, and behavior in the rat. Psychonom Sci 27(3):149-150, 1972. (Data given for epinephrine, NE, and AChE. Neither diet nor population density affected the neurotransmitters. Animals: rats.)

Hall ZW (Dept. Neurobiology, Harvard Medical School, Boston, MA 02115) The storage, synthesis and inactivation of the transmitters acetylcholin, norepinephrine and gamma-amminobutyric acid. In: Structure and Function of Synapses, ed. by G.D. Pappas and D.P. Purpura. New York, Raven. pp. 161-171, 1972. (Review article [86 references].)

Lytle LD, Hurko O, Romero JA, Cottman K, Leehey D, Wurtman RJ (Wurtman: Dept. Nutrition & Food, Massachusetts Inst. Technology, Cambridge, MA 02139) The effects of 6-hydroxydopamine pretreatment on the accumulation of dopa and dopamine in brain and peripheral organs following L-Dopa administration. *J Neural Transmission* 33(1):63-71, 1972. (The destruction of catecholamine-containing nerve terminals with 6-OH dopamine did not affect the uptake of exogenous dopa and its conversion to dopamine. The existence of more than one type of cell capable of taking up dopa and converting it to dopamine is suggested. Animals: rats.)

Twente J, Twente JW (Space Sciences Research Center, Univ. Missouri, Columbia, MO 65201) Distribution of [^{14}C] epinephrine and [^{131}I] albumin in regions of the brain and other tissues of hibernating *Citellus lateralis* after intraperitoneal injection. *Comp Gen Pharmacol* 2(6):138-144, 1971. (Partial results indicate that "equal distribution of the two isotopes in the hypothalamus, medulla oblongata [with pons], cerebellum, and cerebrum showed that the blood-brain barrier was impermeable to epinephrine in hibernating ground squirrels.")

Yessaian NH, Kazarova EK (Inst. Biochemistry, Academy Sciences of Armenian SSR, Yerevan, USSR) (Inorganic ions in the effect of GABA on the loss of norepinephrine from rat midbrain slices). *Voprosy Biokhimii Mozga* 6:161-169, 1970 (Rus). (The results suggest Na^+ involvement in the effects of GABA on brain norepinephrine levels. English summary.)

(5) Structural-Activity Relationships

Woodruff GN (Dept. Physiology & Biochemistry, Univ. Southampton, Southampton SO9 5NH, England) Dopamine receptors: a review. *Comp Gen Pharmacol* 2(8):439-455, 1971. (A model composite dopamine/5-HT receptor is proposed and chemicals which should bind to it are discussed. Review article [82 references].)

(6) Effects on Physiological Processes

Jacob J, Suaudeau C, Michaud G (Service de Pharmacologie et Toxicologie, Inst. Pasteur 28 Rue du Docteur-Roux, F. 75 - Paris-15, France) (Effects of intracisternal and subcutaneous injections of norepinephrine, dopamine, isoproterenol and 5-hydroxytryptamine on the temperature of the awake rat). *Actions de la noradrénaline, de la dopamine et de l'isopropylnoradrénaline et de la 5-hydroxytryptamine administrées par voie intracisternale et sous-cutanée sur la température du rat éveillé.* *J Pharmacol* (Paris) 2(4):401-422, 1971 (Fre). (English summary.)

Myers RD, Yaksh TL (Lab. Neuropsychology, Purdue Univ., Lafayette, IN 49707) The role of hypothalamic monoamines in hibernation and hypothermia. In: Hibernation and Hypothermia, Perspectives and Challenges; Symposium held at Snowmass-at-Aspen, Colorado, Jan. 3-8, 1971, ed. by F.E. South et al. Amsterdam, Elsevier. pp. 551-575, 1972. (Review article [20 references].)

(7) Biochemical Effects on Other Systems

(8) Transmitter Functions

(9) Electrophysiology

Gasánov GG, Ismailova KH (Effect of the serotonin reactive system of the hypothalamus on interoceptive signalization and glycohomeostatic visceral reactions) Izv Akad Nauk Azerbaidzh SSR (Biol) No. 5-6:107-112, 1971 (Rus) (Animals: rabbits.)

(10) Interaction of Biogenic Amines, Behavior, Stress and Environment

Jouvet M Some monoaminergic mechanisms controlling sleep and waking. In: Brain and Human Behavior, ed. by A.G. Karczmar and J.C. Eccles. New York, Springer-Verlag. pp. 131-161, 1972. (Review article.)

Kety SS Norepinephrine in the central nervous system and its correlations with behavior. In: Brain and Human Behavior, ed. by A.G. Karczmar and J.C. Eccles. New York, Springer-Verlag. pp. 115-128, 1972.

(11) Chemical and Drug Effects

Brzezinski J (Dept. Toxicological Chemistry, Inst. Biopharmacy, Medical Academy, Warszawa, Poland) The effect of poisoning with phosphorus organic insecticides on the catecholamine levels in rat plasma brain and adrenals. Diss Pharm Pharmacol 24(2):217-220, 1972. (With these insecticides, the sum of catecholamine in rat serum increased with concomitant decreases in the adrenal adrenaline content and brain noradrenaline.)

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of life. Although unrelated to the behavioral changes, neuroendocrine effects were also found.")

(12) Interaction with Hormones

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Kaim R, Halimi S, Guidicelli C, Agnès-Delord C, Hadjian A, Perret J, Micoud M (Clinique Médicale A, Centre Hospitalier Régional, 38-La Tronche, France) (Hormone stimulation by increasing L-Dopa) Stimulation de l'hormone de croissance par la L. Dopa. Nouv Presse Med 1(10): 675-677, 1972 (Fre).

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Umenko EV (Central regulation of the pituitary-adrenal system) Leningrad, Nauka. pp. 1-162, 1971. (The role of 5HT, catecholamines, and ACh in the control of the pituitary-adrenal system is treated. English summary.)

(13) Pathological States

Swans HL Jr, Shenker DM (Dept. Neurological Sciences, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL 60612) Observations on the dopaminergic nature of hyperthyroid chorea. J Neural Transmission 33(1): 73-81, 1972.

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(14) Invertebrate Neurotransmission

NEUROENDOCRINE CONTROL MECHANISM:
THE HYPOTHALAMIC-PITUITARY-GONADAL SYSTEM

(1) General Articles, Reviews, Books

- (No author) Comparative aspects of ovarian function and control. *Am Zool* 12(2):223-339, 1972. (Symposium given as part of the meeting of American Society of Zoologists with the American Association for the Advancement of Science, December 28, 1971.)
- (No author) First international symposium of the Journal of Steroid Biochemistry. The interaction of steroids with macromolecules, held in Paris, 13-15 September 1971. *J Steroid Biochem* 3(3):251-659, 1972. (Sections of interest include radioimmunoassay and competitive binding assay of steroids, receptors and mechanism of action of androgens, receptors and mechanism of action of oestrogens, and receptors and mechanism of action of progesterone.)
- (No author) How the brain rules the hormones. *Med World News* 13(40): 52-65, 1972. (Review article concerning chronological events involved in elucidation of hypothalamic control of pituitary function and releasing hormone chemistry by various research groups.)
- (No author) Symposium, with international participation, on differentiation and neuroendocrine regulation in the hypothalamo-hypophyseal-gonadal system. pp. 1-66, 1972. (Abstracts of papers, many of which are in English, presented at the international symposium, organized by the Society for Endocrinology and Metabolic Diseases of the GDR and held in Berlin, GDR, Sept. 20-23, 1972.)
- Andrew RJ (Ethology and Neurophysiology Group, School of Biological Science, Univ. Sussex, Brighton, Sussex, England) Recognition processes and behavior, with special reference to effects of testosterone on persistence. *Adv Stud Behav* 4:175-208, 1972. (Review, in which discussion of testosterone and other steroid effects on recognition and persistence in chicks and human cognition is included.)
- Austin CR, Short RV, eds. Hormones in Reproduction. Cambridge, University Press. pp. 1-148, 1972. (Several chapters of particular interest are cited individually.)
- Baird DT (Dept. Obstetrics and Gynaecology, 39 Chalmers St., Edinburgh, Scotland) Reproductive hormones. In: Hormones in Reproduction, ed. by C.R. Austin and R.V. Short. Cambridge, University Press. pp. 1-28, 1972. (Review of structure, activity and location of gonadotropins, gonadal steroids and prostaglandins in mammalian species.)

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- Chieffi G (Dept. Comparative Anatomy, Faculty Sciences, Univ. Naples, Naples, Italy) Comparative endocrinology of the vertebrate testis. *Am Zool* 12(2):207-211, 1972. (In nonmammalian vertebrates.)
- Damian E (Inst. Endocrinology, Academy Medical Sciences of the Socialist Republic of Romania, 34 Bd. Aviatorilor, Bucharest, Romania) Anti-sexual substances in human and animal urine. *Rev Roum Endocrinol* 9(3): 145-162, 1972. (Survey of various studies on urinary gonadotropin-inhibiting factors in humans and other mammals.)
- Den Hollander FC, Schuurs AHWM, Van Hell H (Research Labs., N.V. Organon, Oss, Holland) Radioimmunoassays for human gonadotrophins and insulin employing a 'double-antibody solid-phase' technique. *J Immunol Meth* 1(3):247-262, 1972.
- Diczfalussy E (Reproductive Endocrinology Research Unit, Swedish Medical Research Council, Karolinska sjukhuset, Stockholm, Sweden) Steps in the reproductive process susceptible to regulation. *Caribbean Med J* 31-32:13-31, 1969-1970. (Review of regulatory mechanisms in reproductive processes [including spermiogenesis, ovulation and the menstrual cycle] with reference to possibilities for contraceptive interference.)
- Eddy JMP (School Biological Sciences, Macquarie Univ., North Ryde, New South Wales, Australia) The pineal complex. In: The Biology of Lampreys, Vol. II, ed. by M.W. Hardisty and I.C. Potter. pp. 91-103, 1972. (Review of lamprey pineal structure and function, which includes brief discussion of possible reproductive involvement.)
- Eisenfeld AJ (Dept. Pharmacology, Yale Univ. School of Medicine, New Haven, CT) Interaction of estrogens, progestational agents, and androgens with brain and pituitary and their role in the control of ovulation. In: Perspectives in Neuropsychopharmacology -- A Tribute to Julius Axelrod, ed. by S.H. Snyder. New York, Oxford Univ. Press. pp. 113-142, 1972. (Review, which includes discussion of estrogen receptors, releasing factor stimulation, androgen activity and probable oral contraceptive action in the brain.)
- Eleftheriou BE, ed. (The Jackson Lab., Bar Harbor, ME 04609) The Neurobiology of the Amygdala. The Proceedings of a Symposium on the Neurobiology of the Amygdala, Bar Harbor, Maine, June 6-17, 1971. New York, Plenum Press. pp. 1-819, 1972. (Many articles of interest are included.)

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- Flerkó B (Dept. Anatomy, Univ. Medical School, Pécs, Hungary) Steroid hormones and the differentiation of the central nervous system. Curr Top Exp Endocrinol 1:41-80, 1971. (A review of studies on how steroid hormones influence differentiation of those brain structures instrumental in the control of gonadotropin secretion. Topics covered include: the androgen-sterilized rat [discusses polyfollicular ovary syndrome induced by perinatal androgen administration], possible site and mechanism of androgen action in the hypothalamus, effects of other neonatally administered steroid hormones, protection against steroid-induced sterility.)
- Glick ID, Bennett SE (Porter Neuropsychiatric Inst., Univ. California School of Medicine, San Francisco, CA) Psychiatric effects of progesterone and oral contraceptives. In: Psychiatric Complications of Medical Drugs, ed. by R.I. Shader. New York, Raven Press. pp. 295-331, 1972. (Summary and critical review of literature concerning progestin and oral contraceptive effects on mood and behavior, with related speculation for progesterone involvement.)
- Green R (Dept. Psychiatry, Univ. California School of Medicine, Los Angeles CA 90024) Neuroendocrine and neuroanatomic correlates of atypical sexuality. In: The Chemistry of Mood, Motivation, and Memory, ed. by J.L. McGaugh. New York, Plenum Press. pp. 27-40, 1972. (Review.)
- Green OC, Perlman SM (Dept. Pediatrics, Northwestern Univ. Medical School, Chicago, IL) Endocrinology and disorders of learning. Prog Learning Disabil 2:1-17, 1972. (Review, which includes sex chromosomal and hormonal [steroid] involvement in brain function and disorders of learning and behavior.)
- Hammerstein J (Abt. Gynaekol. Endokrinologie, Klinikum Steglitz der FU, Hindenburgdamm 30, D-1000 Berlin 45, Germany) (Recent methods of hormonal contraception) Neuere Verfahren der hormonalen Contraception. Gynäkologe 5(3):120-140, 1972 (Ger). (A review.)
- Heap RB (A.R.C. Inst. Animal Physiology, Babraham, Cambridge, England) Role of hormones in pregnancy. In: Hormones in Reproduction, ed. by C.R. Austin and R.V. Short. Cambridge, University Press. pp. 73-105, 1972. (Review.)
- Immelmann K (Zoologisches Inst., Technischen Univ., Braunschweig, Germany) Sexual and other long-term aspects of imprinting in birds and other species. Adv Stud Behav 4:147-174, 1972. (Review.)

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Li CH (Hormone Research Lab., Univ. California, San Francisco, San Francisco, CA) Hormones of the adenohypophysis. Proc Am Philosoph Soc 116(5):365-382, 1972. (Review of anterior pituitary hormones, their structures and functions.)

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- Martini L, James VHT, eds. (Dept. Pharmacology, Univ. Milan, Milano, Italy) Current topics in experimental endocrinology. Vol. 1. New York, Academic Press, 1971. Curr Top Exp Endocrinol 1:1-294, 1971. (A new series designed to provide continuing and critical reviews in various aspects of experimental endocrinology. Authors of the individual reviews were asked to discuss their fields critically and from a personal standpoint.)
- Mason JW (Dept. Neuroendocrinology, Walter Reed Army Inst. Research, Walter Reed Army Medical Center, Washington, D.C.) Organization of psychoendocrine mechanisms. A review and reconsideration of research. In: Handbook of Psychophysiology, ed. by N.S. Greenfield and R.S. Sternbach. New York, Holt, Rinehart and Winston. pp. 3-91, 1972. (Review, in which the scope of psychoendocrine research, multiple endocrine response organization in monkeys and endocrine organization through overall hormonal balance are discussed. Remaining discussions and primary interests of the review are concerned with psychoendocrine mechanism in pituitary-adrenal and pituitary-thyroid systems.)
- Mastroianni L Jr., Brackett BG (Dept. Obstetrics & Gynecology, Univ. Pennsylvania School of Medicine, Philadelphia, PA) Ovum maturation, gamete transport, capacitation and fertilization in the monkey. In: The Use of Non-Human Primates in Research on Human Reproduction, ed. by E. Diczfalusy and C.C. Standley. Copenhagen, Bogtrykkeriet Forum. pp. 48-58, 1972. (Review.)
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- McEwen BS, Zigmond RE, Gerlach JL Sites of steroid binding and action in the brain. In: Structure and Function of Nervous Tissue, Vol. V, ed. by G.H. Bourne. New York, Academic Press. pp. 205-291, 1972. (Separate sections of interest include gonadal hormones and the central nervous system, studies on hormone uptake and binding in regions of the brain, possible cellular mechanisms of hormone action, and biochemical effects of steroid hormones on the brain.)
- Noirot E (Lab. Psychologie Experimentale, 117, Av. A. Buyl, 1050 Bruxelles, Belgium) The onset of maternal behavior in rats, hamsters, and mice. A selective review. Adv Stud Behav 4:107-145, 1972. (Discussion of hormonal treatments, plasma transfer and cross-transfusion in study of maternal behavior onset is included.)

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Raisman G, Field PM (Dept. Human Anatomy, Univ. Oxford, Oxford, England) Functional implications of a quantitative ultrastructural analysis of synapses in the preoptic area and ventromedial nucleus. In: The Neurobiology of the Amygdala, ed. by B.E. Eleftheriou. New York, Plenum Press. pp. 83-94, 1972. (Discussion of preoptic and ventromedial nuclear synaptic involvement in control of gonadotropin secretion, ovulation and mating behavior in the rat.)

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(7) Other Endocrine Interactions

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(11) Lesions, Stimulations, Stresses

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(14) Sex Differentiation and Development

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Menés EL (Dept. de Anatomia, Facultad de Medicina, Zaragoza, Spain) (On the action of human chorionic gonadotropin in the female genital substrate at different stages of postnatal development) Sobre la acción de la gonadotropina coriónica humana en el substrato genital femenino en diversas etapas del desarrollo postnatal. An Anat (Zaragoza) 21(53): 323-352, 1972 (Spa) (Comparison of HCG effects on uterine and ovary development in neonatal and adult rats. English summary.)

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- Scheib D (Lab. Embryologie expérimentale, Collège de France, Paris-5e, France) (Ultrastructure and function of interstitial cells of the mouse testis. I. Fetal differentiation) Ultrastructure et fonction des cellules interstitielles du testicule de la souris: évolution foetale. *Ann Embryol Morphogen* 5(2):121-133, 1972 (Fre) (English summary.)
- Singh M Effect of prenatal administration of estrogen and progesterone on the reproductive function in the female rat. Ph.D. thesis, Ohio State Univ. pp. 1-64, 1972. (Abstract in Dissertation Abst Int [B] 33(4):1752-1753, 1972. Order from University Microfilms, order no. 72-27,107.)
- Skinner JD (Animal & Dairy Science Research Inst., Irene, South Africa) Post-natal development of the reproductive tract in the Dorper ram. *Agroanimalia* 3(1):7-12, 1971. (Gross morphological, chemical and histological description of pituitary, testicular and accessory organ growth in rams from birth to 1 year.)
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- Warren DW Testosterone biosynthesis and metabolism in the sexually differentiating fetal rat. Ph.D. thesis, Univ. Southern California. pp. 1-67, 1972. (Abstract in Dissertation Abst Int [B] 33(4):1756, 1972. Order from University Microfilms, order no. 72-26,065.)
- Weniger JP, Zeis A (Lab. Zoologie, 12, rue de l'Univ., 67-Strasbourg, Cronenbourg, France) (Metabolism of [$4-^{14}\text{C}$] testosterone by the embryonic rat testes cultivated in vitro). Metabolisme de la [$4-^{14}\text{C}$]-testostérone par le testicule embryonnaire de rat cultivé in vitro.

J Steroid Biochem 3(4):749-754, 1972 (Fre) (Identification of fetal testicular androgen metabolites. English summary.)

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(1) Books, Reviews and Theoretical Discussions

Curtis GC (Eastern Pennsylvania Psychiatric Inst., Henry Ave. & Abbotsford Rd., Philadelphia, PA 19129) Psychosomatics and chronobiology: possible implications of neuroendocrine rhythms. A review. *Psychosom Med* 34(3) 235-256, 1972. ("Six of the variables involved in the psychoendocrine 'catabolic-anabolic sequence' as defined by Mason -- urinary corticosteroids, epinephrine, norepinephrine, aldosterone, urine volume, and plasma hormone -- undergo diurnal variations of large amplitude. 'Psychological stress,' in addition to its more familiar endocrine effects, may also affect the organism's ability to synchronize its neuroendocrine rhythms with each other and with environmental cycles." A review with 155 references.)

(2) Neurophysiology - General(3) Neurophysiology of the Visual System(4) Physiology (Autonomic, Metabolic, Motor)

Hayward JN (Dept. Anatomy, UCLA School of Medicine, Los Angeles, CA 90024) The amygdaloid nuclear complex and mechanisms of release of vasopressin from the neurohypophysis. In: The Neurobiology of the Amygdala, ed. by B.E. Eleftheriou. New York, Plenum Press, 1972. pp. 685-739. ("Oscillations in amygdaloid temperature during sleep-waking behavior in both 'internal carotid' and 'carotid rete' bearing species are due to changes in the temperature of the cerebral arterial blood.")

(5) Biochemistry, Pharmacology

De la Torre JC (Div. Neurological Surgery, Univ. Chicago Pritzker School of Medicine, Chicago, IL) Dynamics of Brain Monoamines. New York, Plenum Press, 1972. pp. 76-87. (A section on "Sleep Mechanisms" discusses slow sleep and serotonin, and paradoxical sleep and noradrenaline.)

Fröberg J, Karlsson CG, Levi L, Lidberg L (Lab. Clinical Stress Research, Fack, S-10401 Stockholm, Sweden) Circadian variations in performance, psychological ratings, catecholamine excretion, and diuresis during prolonged sleep deprivation. *Int J Psychobiol* 2(1):23-36, 1972. ("...adrenaline had its maximum values in the afternoon and its minimum values in the early morning, while noradrenalin and urine flow peaked during the morning hours. The minimum part of the fatigue curve occurred at about the same time as the adrenalin maximum.... Thus, adrenalin excretion was highly positively correlated with performance and negatively correlated with fatigue ratings. The reverse was true for noradrenalin excretion.")

Mendels J (V.A. Hospital, Philadelphia, PA 19104) Biogenic amine metabolism, sleep patterns and mood. *Hormones* 3(5):275, 1972. (Abstract of a paper presented at the 3rd International Symposium "Hormones, the Brain and Behaviour," London, 1972, of the International Society of Psychoneuroendocrinology.)

(5A) Endocrinology

Ho MA Sex hormones and the sleep of women. Ph.D. thesis, Yeshiva University, 1972. 58 pp. (Of 17 sleep parameters measured, only the total amount of stages 3 + 4 showed a clear variation during the menstrual cycle, being increased at the time of high estrogen and progesterone levels in ovulating women, and decreased at the corresponding time of cycle in women taking the pill. *Dissertation Abst Int (B)* 33(3):1305, 1972. Order from University Microfilms, Ann Arbor, MI, order no. 72-23,572.)

Jacoby JH Neuroendocrine rhythms and sleep-waking patterns in the rhesus monkey. Ph.D. thesis, Yeshiva Univ., 1972. 191 pp. (Cortisol and growth hormone secretion were studied in normal juveniles. Cortisol peaks occur in the early morning. GH is also secreted episodically. Neither secretion rhythm could be related to sleep stages. *Dissertation Abst Int (B)* 33(3):1119, 1972. Order from University Microfilms, Ann Arbor, MI, order no. 72-24,435.)

Karacan I, Williams RL (Dept. Psychiatry, Univ. Florida, Gainesville, FL 32601) Effect of acute starvation on the sleep-growth hormone response. (Abstract of a paper presented at the second annual meeting, Society for Neuroscience, Houston, TX, October 8-11, 1972.)

Kawakami M, Yamaoka S, Yamaguchi T (2nd Dept. Physiology, Yokohama City Univ. School of Medicine, Yokohama, Japan) Influence of light and hormones upon circadian rhythm of EEG slow wave and paradoxical sleep. In: Advances in Climatic Physiology, ed. by S. Itoh, K. Ogata, and H. Yoshimura. Berlin, Springer-Verlag, 1972. pp. 349-366. (Effects of pituitary hormones (ACTH, CRF), pineal substances, light, and darkness on the distribution of PS episodes in rats, rabbits, and man were studied.)

Oswald I, Dunleavy DLF, Strong JA (Dept. Psychiatry, Royal Edinburgh Hosp., Edinburgh EH10 5HF, Scotland) Hyperthyroidism and the sleeping brain. *Hormones* 3(5):278, 1972. (Abstract of a paper presented at the 3rd International Symposium "Hormones, the Brain and Behaviour," London, 1972, of the International Society of Psychoneuroendocrinology.)

Pediatric Grand Rounds, Children's Memorial Hospital, Univ. Oklahoma Health Sciences Center. Studies of human growth hormone. *Southern Med J* 65(9):1067-1074, 1972. (Participants were: H.D. Riley, Jr., J.D. Smith, J. Holcombe, J.R. Poley, N.K. Ordway.)

- (6) Ontogeny
- (7) Phylogeny
- (8) Behavior (Conditioning, Performance, Discrimination)
- (9) Sleep Cycle in the Human Adult
- (10) Dreaming (Physiology and Behavior)
- (11) Special Features of Dream Recall
- (12) Effects of External Stimuli
- (13) Patterns of Dream Content
- (14) Hypnosis
- (15) Personality and Psychopathology
- (16) Pathology and Disorders Associated with Sleep
- (17) Sleep Deprivation (Total and Selective)

Kuhn E, Ryšánek K, Kujalová V, Brodan V, Válek J (Inst. Human Nutrition
Praha Krc, Budejovicka 800, Prague, Czechoslovakia)

- (18) Electrosleep
- (19) Instrumentation and Methodology
- (20) Biological Rhythms and Altered Environments

Curtis GC (Eastern Pennsylvania Psychiatric Inst., Henry Ave. & Abbotsford
Rd., Philadelphia, PA 19129) (See category 1: Books, reviews.)

Kawakami M, Yamaoka S, Yamaguchi T (2nd Dept. Physiology, Yokohama City
Univ. School Medicine, Yokohama, Japan) Influence of light and hormones
upon circadian rhythm of EEG slow wave and paradoxical sleep. In:
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Yoshimura. Berlin, Springer-Verlag, 1972. pp. 349-366. (Abstract
under category 5A: Endocrinology.)

Philip BA, Petajan J (Physiology Sect., Arctic Health Research Lab.,
College, Alaska 99701) Seasonal cycles in sleep patterns and related
hormonal secretions in Caucasians at high latitudes. *Biometeorology*,
5(1):148, 1972. (Describes a long-term study of seasonal changes in
the character of sleep of residents of Fairbanks, Alaska, which is
underway. Abstract from the Proceedings, Sixth International Bio-
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CYCLIC NUCLEOTIDES

ADENOSINE CYCLIC 3',5' MONOPHOSPHATE

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METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the sub-headings: analysis, blood, cerebrospinal fluid, chemical synthesis, isolation & purification, and urine).

ASCORBIC ACID

A new method for preventing oxidative decomposition of catechol estrogens during chromatography. Gelbke HP, et al. *J Chromatogr* 71:465-71, 20 Sep 72
ASCORBIC ACID/ CATECHOL/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ CHROMATOGRAPHY, THIN LAYER/
DRUG STABILITY/ *ESTRADIOL, analysis/
GELS/ HYDROXYSTEROIDS, analysis/
METHODS/ OXIDATION-REDUCTION/ SILICA/
TRITIUM

AUTOANALYSIS

Separation of iodo compounds in serum by chromatography on Sephadex columns. Green WL. *J Chromatogr* 72:83-91, 5 Oct 72
AUTOANALYSIS/ *CHROMATOGRAPHY/
CHROMATOGRAPHY, instrumentation/
HYDROGEN-ION CONCENTRATION/
IODIDES, blood/ IODINE ISOTOPES/
*IODOPROTEINS, blood/ METHODS/
PROTEIN-BOUND IODINE TEST/
THYROXINE, blood/ TRIIODOTHYRONINE,
blood

[Semi-automatic screening method for 3-methoxy-4-hydroxy-mandelic acid] Gonnard P, et al. *Ann Biol Clin (Paris)* 30:319-23, 1972 (Eng. Abstr.) (Fre)

AUTOANALYSIS/ COLORIMETRY/ ENGLISH
ABSTRACT/ HUMAN/ MASS SCREENING/
METHODS/ *PHEOCHROMOCYTOMA,
diagnosis/ *VANILMANDELIC ACID, urine

AUTORADIOGRAPHY

Thin-layer chromatographic separation of optical isomers of labeled DOPA via dipeptide formation. Barooshian AV, et al. *Anal Biochem* 49:569-71, Oct 72
ANHYDRIDES/ AUTORADIOGRAPHY/
CARBON ISOTOPES/ CHROMATOGRAPHY,
THIN LAYER/ DIPEPTIDES, chem synthesis/
DIPEPTIDES, isolation & purification/ *DOPA,
isolation & purification/ LEUCINE/
METHODS/ STEREOISOMERS

BIOLOGICAL ASSAY

The rat ovarian augmentation method for follicle stimulating hormone. Specificity of the test. Christiansen P.

Acta Endocrinol (Kbh) 70:647-53, Aug 72
ANIMAL EXPERIMENTS/ *BIOLOGICAL
ASSAY/ CORTICOTROPIN, pharmacodynamics/
*FSH, analysis/ GONADOTROPINS,
CHORIONIC, pharmacodynamics/ GRAAFIAN
FOLLICLE, drug effects/ HUMAN/ IN
VITRO/ LH, pharmacodynamics/ MALE/
METHODS/ ORGAN WEIGHT/ OVARY, drug
effects/ PROLACTIN, pharmacodynamics/
RATS/ SHEEP/ SOMATOTROPIN,
pharmacodynamics/ THYROTROPIN,
pharmacodynamics

Separation of pineal extracts on Sephadex G-10. 3. Isolation and comparison of extracted and synthetic melatonin. Ebels I, et al. *Anal Biochem* 50:234-44, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
THIN LAYER/ CHROMATOPHORES, drug
effects/ FLUORESCENCE/ FLUORESCENCE
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LARVA, drug effects/ MASS SPECTRUM
ANALYSIS/ MELATONIN, analysis/
*MELATONIN, isolation & purification/
MELATONIN, pharmacodynamics/ METHODS/
NUCLEAR MAGNETIC RESONANCE/
*PINEAL BODY, analysis/ PROTONS/ SHEEP/
SOLUBILITY/ SPECTROPHOTOMETRY,
INFRARED/ WATER/ XENOPUS, drug effects

Separation of LATS from sera containing both LATS and TSH by dextran-coated charcoal. Ochi Y, et al. *Endocrinology* 91:1389-91, Nov 72
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CATTLE/ CHARCOAL/
CHROMATOGRAPHY, ION EXCHANGE/
DEXTRAN/ DIALYSIS/ HUMAN/ IODINE
ISOTOPES/ LONG-ACTING THYROID
STIMULATOR, blood/ *LONG-ACTING
THYROID STIMULATOR, isolation &
purification/ METHODS/ MICE/
THYROTROPIN, blood/ *THYROTROPIN,
isolation & purification

A simplified assay for somatomedin. Alford FP, et al. *J Endocrinol* 54:365-6, Aug 72
BIOLOGICAL ASSAY/ CARTILAGE/
CHONDROITIN/ GEL FILTRATION/ MALE/
METHODS/ RATS/ *SOMATOMEDIN, analysis/
SULFUR ISOTOPES

An in-vitro procedure for the quantitative measurement of follicle-stimulating hormone activity. Boggis J, et al. *J Endocrinol* 54:355-6, Aug 72
BIOLOGICAL ASSAY/ FEMALE/ *FSH,
analysis/ HUMAN/ METHODS/ MICE/ OVARY,
metabolism/ THYMIDINE, metabolism/ TISSUE
CULTURE/ TRITIUM

CENTRIFUGATION

Measurements of 125 I labelled metabolites in human thyroid tissue. A laboratory evaluation of variations in the procedures used for digestion and chromatography. Agerbaek H.

Acta Endocrinol (Kbh) 71:273-88, Oct 72
ADENOMA, diagnosis/ ADENOMA, metabolism/
BUFFERS/ CENTRIFUGATION/
CHROMATOGRAPHY, PAPER/ EVALUATION
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metabolism/ HUMAN/ HYDROLYSIS/
IMIDAZOLES, diagnostic use/ *IODINE,
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ISOTOPES, DIAGNOSTIC/ METHODS/
PRONASE, diagnostic use/
PROPYLTHIOURACIL, diagnostic use/
THYROID ANTAGONISTS/ *THYROID
GLAND, metabolism/ *THYROID GLAND
FUNCTION TESTS/ THYROID HORMONES,
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THYROID NEOPLASMS, metabolism/
*THYROXINE, analysis/ THYROXINE,
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CHEMISTRY

Separation of pineal extracts on Sephadex G-10. 3. Isolation and comparison of extracted and synthetic melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
THIN LAYER/ CHROMATOPHORES, drug
effects/ FLUORESCENCE/ FLUORESCENCE
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*MELATONIN, isolation & purification/
MELATONIN, pharmacodynamics/ METHODS/
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*PINEAL BODY, analysis/ PROTONS/ SHEEP/
SOLUBILITY/ SPECTROPHOTOMETRY,
INFRARED/ WATER/ XENOPUS, drug effects

Method for the determination of pregnenolone in biological samples using gas-phase chromatography. Pulsinelli WP, et al. *Anal Biochem* 49:559-68, Oct 72

ACETIC ACIDS/ ACETIC ACIDS, chem
synthesis/ ACYLATION/ ALCOHOL
OXIDOREDUCTASES/ ANHYDRIDES/
CHEMISTRY/ CHLORINE/
*CHROMATOGRAPHY, GAS/
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HYDROXYSTERIODS/ HYDROXYSTERIODS,
chem synthesis/ MASS SPECTRUM
ANALYSIS/ MATHEMATICS/ METHODS/
MICROCHEMISTRY/ PREGNANES, chem
synthesis/ *PREGNENOLONE, analysis/
PREGNENOLONE, blood/ TRITIUM

TMS-enol-TMS: a new type of derivative for the gas phase study of dihydroxyacetone side chain saturated corticosteroid metabolites. Chambaz EM, et al.

J Steroid Biochem 3:741-7, Jun 72
ACETAMIDES/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/ ETHERS, chem
synthesis/ FLUORINE/ HYDROXYSTERIODS/
HYDROXYSTERIODS, chem synthesis/
HYDROXYSTERIODS, isolation & purification/
IMIDAZOLES/ KETOSTEROIDS/
KETOSTEROIDS, chem synthesis/
KETOSTEROIDS, isolation & purification/
KINETICS/ MASS SPECTRUM ANALYSIS/
METHODS/ PREGNANES/ PREGNANES, chem
synthesis/ *PREGNANES, isolation &
purification/ *SILICON/ STEREOISOMERS

Steroid glucuronoside-BSA complexes as antigens: the radioimmunoassay of steroid conjugates. Kellie AE, et al. *J Steroid Biochem* 3:275-88, Apr 72

*ANTIBODY FORMATION/ ANTIGENS/
BINDING SITES, ANTIBODY/ CATTLE/
CHEMISTRY/ CROSS REACTIONS/
*DEHYDROEPIANDROSTERONE, analysis/
*ESTRADIOL, analysis/ ESTRADIOL/ ESTRONE/
GEL FILTRATION/ *GLUCURONATES/
*GLYCOSIDES/ HAPTENS/ METHODS/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ STANOLONE/ STEROIDS/
*TESTOSTERONE, analysis/ TRITIUM

An evaluation of "OV" liquid phases for the gas-liquid chromatographic separation of biologically active steroids. Mueller JR, et al.

J Steroid Biochem 3:735-40, Jun 72
*ANDROGENS, isolation & purification/
ANDROSTENES, isolation & purification/
ANHYDRIDES/ BUTYRATES/ BUTYRATES,
chem synthesis/ CAPRYLATES/
CAPRYLATES, chem synthesis/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/ COMPARATIVE
STUDY/ DEHYDROEPIANDROSTERONE,
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synthesis/ *ESTROGENS, isolation &
purification/ FLUORINE/ KETOSTEROIDS,
isolation & purification/ METHODS/
*PROGESTATIONAL HORMONES, isolation &
purification/ PROGESTERONE, isolation &
purification/ TESTOSTERONE, isolation &
purification

CHROMATOGRAPHY

Methodological study of the radioimmunoassay of human thyrotrophin. Gordin A, et al.

Acta Endocrinol (Kbh) 71:24-36, Sep 72
ADULT/ AGE FACTORS/ AGED/
CHROMATOGRAPHY/ ELECTROPHORESIS/
ELECTROPHORESIS, PAPER/ FEMALE/
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METHODS/ MIDDLE AGE/ POLYVINYL/
PREGNANCY/ *RADIOIMMUNOASSAY/
TEMPERATURE/ *THYROTROPIN, blood

High speed liquid chromatography of derivatized urinary 17-keto steroids. Fitzpatrick FA, et al.

Anal Chem 44:2211-6, Nov 72
ANDROSTERONE, urine/
*CHROMATOGRAPHY/
DEHYDROEPIANDROSTERONE, urine/
HUMAN/ *17-KETOSTEROIDS, urine/ MALE/
METHODS/ TIME FACTORS

Methodological aspects in the immunohistological detection of pituitary hormones. Breustedt HJ.

Horm Metab Res 3:Suppl 3:18-21, 1971
ANIMAL EXPERIMENTS/
CHROMATOGRAPHY/ CORTICOTROPIN,
analysis/ *FLUORESCENT ANTIBODY
TECHNIC, standards/ GAMMA GLOBULIN/
GOATS, immunology/ HUMAN/ IMMUNE
SERUMS/ METHODS/ *PITUITARY
HORMONES, analysis/ RABBITS, immunology/
RATS/ SPECIES SPECIFICITY

The immunohistological demonstration of insulin in pancreatic tissue. Federlin K, et al.

Horm Metab Res 3:Suppl 3:6-9, 1971
ANIMAL EXPERIMENTS/
CHROMATOGRAPHY/ FLUORESCENT
ANTIBODY TECHNIC/ FREEZING/ GUINEA
PIGS/ IMMUNE SERUMS/ *INSULIN, analysis/
*INSULIN ANTIBODIES, analysis/ ISLANDS
OF LANGERHANS, analysis/ *ISLANDS OF
LANGERHANS, immunology/ METHODS/
RATS

A new method for preventing oxidative decomposition of catechol estrogens during chromatography. Gelbke HP, et al. *J Chromatogr* 71:465-71, 20 Sep 72

ASCORBIC ACID/ CATECHOL/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ CHROMATOGRAPHY, THIN LAYER/
DRUG STABILITY/ *ESTRADIOL, analysis/
GELS/ HYDROXYSTERIODS, analysis/
METHODS/ OXIDATION-REDUCTION/ SILICA/
TRITIUM

Separation of iodo compounds in serum by chromatography on Sephadex columns. Green WL.

J Chromatogr 72:83-91, 5 Oct 72
AUTOANALYSIS/ *CHROMATOGRAPHY/
CHROMATOGRAPHY, instrumentation/
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IODIDES, blood/ IODINE ISOTOPES/
*IODOPROTEINS, blood/ METHODS/
PROTEIN-BOUND IODINE TEST/
THYROXINE, blood/ TRIIODOTHYRONINE,
blood

Metabolism and interconversion of

dehydroisoandrosterone and dehydroisoandrosterone sulfate. Rosenfeld RS, et al.

J Clin Endocrinol Metab 35:187-93, Aug 72
ANDROSTERONE, isolation & purification/
CARBON ISOTOPES/ CHROMATOGRAPHY/
DEHYDROEPIANDROSTERONE, blood/
*DEHYDROEPIANDROSTERONE, metabolism/
ETIOCHOLANOLONE, isolation & purification/
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17-KETOSTEROIDS, blood/ METHODS/
SULFATES, blood/ *SULFATES, metabolism/
TIME FACTORS/ TRITIUM

Estriol conjugates in amniotic fluid at midpregnancy and term. Young BK, et al.

J Clin Endocrinol Metab 35:208-12, Aug 72
*AMNIOTIC FLUID, analysis/ CARBON
ISOTOPES/ CHROMATOGRAPHY/
CHROMATOGRAPHY, ION EXCHANGE/
*ESTRIOL, analysis/ FEMALE/

METHOD SECTION

FLUORESCENCE/ *GLUCURONATES, analysis/
HUMAN/ HYDROLYSIS/ METHODS/
PREGNANCY/ *SULFATES, analysis/ TIME
FACTORS/ TRITIUM

The quantitative determination of fluocinolone acetate and acetate acetate in formulated products by high pressure liquid chromatography. Bailey F, et al. *J Pharm Pharmacol* 24:425-8, Jun 72
ACETIC ACIDS, analysis/ ALCOHOL, METHYL/ *CHROMATOGRAPHY/
*FLUOCINOLONE ACETONIDE, analysis/
GELS, analysis/ METHODS/ OINTMENTS, analysis/ PRESSURE/ SOLUBILITY/ WATER

A simple procedure for the combined determination of plasma estrogen and androgen concentrations by competitive protein binding analysis. Concollino G, et al. *J Steroid Biochem* 3:725-33, Jun 72
ADULT/ *ANDROSTENES, blood/ BINDING, COMPETITIVE/ BLOOD PROTEINS/
CASTRATION/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ CYTOPLASM/
*ESTRADIOL, blood/ *ESTRONE, blood/
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HYPOGONADISM, blood/ KETOSTEROIDS, blood/ MALE/ METHODS/ OVARY, physiology/ PREGNANCY/ PROTEIN BINDING/ RABBITS/ SILICA/
*TESTOSTERONE, blood/ TRITIUM/ UTERUS, cytology

Routine clinical determination of testosterone in plasma by competitive-protein-binding. Dessypris A, et al. *J Steroid Biochem* 3:19-30, Jan 72
ADOLESCENCE/ ADULT/ ANDROSTANES, blood/ ANDROSTENOL, blood/
ANDROSTERONE, blood/ BINDING, COMPETITIVE/ BINDING SITES/ BLOOD PROTEINS, metabolism/ CHILD/
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*TESTOSTERONE, blood/ TRITIUM/ TWINS

[Serum thyroxine (t 4) determination by column chromatography--evaluation of the test conditions and establishment of the normal values] Otsuji S, et al. *Jap J Clin Pathol* 20:339-44, May 72 (Jap)
ADOLESCENCE/ ADULT/ AGED/
*CHROMATOGRAPHY/ EVALUATION
STUDIES/ FEMALE/ HUMAN/ MALE/
METHODS/ MIDDLE AGE/ *THYROXINE, blood

INSTRUMENTATION

Separation of iodo compounds in serum by chromatography on Sephadex columns. Green WL. *J Chromatogr* 72:83-91, 5 Oct 72
AUTOANALYSIS/ *CHROMATOGRAPHY/
CHROMATOGRAPHY, instrumentation/
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IODIDES, blood/ IODINE ISOTOPES/
*IODOPROTEINS, blood/ METHODS/
PROTEIN-BOUND IODINE TEST/
THYROXINE, blood/ TRIIODOTHYRONINE, blood

CHROMATOGRAPHY, GAS

Random urine estriol by gas-liquid chromatography. Bryan RM, et al. *Am J Med Technol* 38:250-4, Jul 72
CHROMATOGRAPHY, GAS/ COMPARATIVE STUDY/ CREATININE, urine/ *ESTRIOL, urine/ FEMALE/ GLUCOSE, urine/
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MATHEMATICS/ METHODS/ MULTIENZYME COMPLEXES/ PREGNANCY/ SULFATASES/
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New gas chromatographic method for estimation of

norepinephrine and dopamine in brain. Maruyama Y, et al. *Anal Biochem* 49:240-7, Sep 72
ANIMAL EXPERIMENTS/ *BRAIN
CHEMISTRY/ *CHROMATOGRAPHY, GAS/
*DOPAMINE, analysis/ FLUOROMETRY/
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*NOREPINEPHRINE, analysis/
OXIDATION-REDUCTION

Method for the determination of pregnenolone in biological samples using gas-phase chromatography. Pulsinelli WP, et al. *Anal Biochem* 49:559-68, Oct 72
ACETIC ACIDS/ ACETIC ACIDS, chem synthesis/ ACYLATION/ ALCOHOL
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*CHROMATOGRAPHY, GAS/
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MICROCHEMISTRY/ PREGNANES, chem synthesis/ *PREGNENOLONE, analysis/
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Estrogen analysis of neonatal bovine urine using gas-liquid chromatography. Fowler AK, et al. *J Anim Sci* 35:843-7, Oct 72
ANIMAL EXPERIMENTS/ ANIMALS, NEWBORN/ *CATTLE, physiology/
*CHROMATOGRAPHY, GAS/ ESTRADIOL, urine/ *ESTROGENS, urine/ ESTRONE, urine/
FEMALE/ MALE/ METHODS

The isolation and identification of progesterone obtained from cows' milk during pregnancy. Darling JA, et al. *J Endocrinol* 54:347-8, Aug 72
ANIMAL EXPERIMENTS/ CATTLE/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
FEMALE/ HUMAN/ MASS SPECTRUM
ANALYSIS/ METHODS/ *MILK, analysis/
PREGNANCY/ *PREGNANCY, ANIMAL/
*PROGESTERONE, isolation & purification

Comparison and evaluation of a competitive protein binding and a gas-chromatographic method for the assay of testosterone in peripheral human plasma. Benraad TJ, et al. *J Steroid Biochem* 3:325-31, Apr 72
AMMONIUM SULFATE/ CHLOROFORM/
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CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
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MALE/ METHODS/ PRECIPITATION/
PREGNANCY/ PROTEIN BINDING/
SOLUBILITY/ *TESTOSTERONE, blood/
TRITIUM

TMS-enol-TMS: a new type of derivative for the gas phase study of dihydroxyacetone side chain saturated corticosteroid metabolites. Chambaz EM, et al. *J Steroid Biochem* 3:741-7, Jun 72
ACETAMIDES/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/ ETHERS, chem synthesis/ FLUORINE/ HYDROXYSTERIODS/
HYDROXYSTERIODS, chem synthesis/
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IMIDAZOLES/ KETOSTEROIDS/
KETOSTEROIDS, chem synthesis/
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METHODS/ PREGNANES/ PREGNANES, chem synthesis/ *PREGNANES, isolation & purification/ *SILICON/ STEREOISOMERS

Radioimmunoassay of plasma testosterone. Collins WP, et al. *J Steroid Biochem* 3:333-48, Apr 72
ADULT/ ANTIGEN-ANTIBODY REACTIONS/
CATTLE/ CHARCOAL/ CHROMATOGRAPHY,
GAS/ COMPARATIVE STUDY/ DEXTRAN/
ETHYL ETHER/ EVALUATION STUDIES/
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*TESTOSTERONE, blood

An evaluation of "OV" liquid phases for the gas-liquid chromatographic separation of biologically active steroids. Mueller JR, et al.

J Steroid Biochem 3:735-40, Jun 72

*ANDROGENS, isolation & purification/
ANDROSTENES, isolation & purification/
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*CHROMATOGRAPHY, GAS/ COMPARATIVE
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*PROGESTATIONAL HORMONES, isolation &
purification/ PROGESTERONE, isolation &
purification/ TESTOSTERONE, isolation &
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An improved method for the detection of estrone, estradiol, and estriol in low titer urine. Morreal CE, et al. Steroids 20:383-97, Oct 72

ADULT/ CARBONATES/ CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, ION EXCHANGE/
CHROMATOGRAPHY, THIN LAYER/
*ESTRADIOL, urine/ *ESTRIOL, urine/
*ESTROGENS, urine/ *ESTRONE, urine/
ETHYL ETHER/ FEMALE/ HUMAN/ MALE/
METHODS/ MICROCHEMISTRY/ MIDDLE
AGE/ PHENOLS/ SOLUBILITY/ TRITIUM

[Simultaneous gas chromatography determination of pregnanediol and estriol in pregnancy urine] Weiss PA.

Endokrinologie 59:279-81, 1972 (Eng. Abstr.) (Ger)

CHROMATOGRAPHY, GAS/ ENGLISH
ABSTRACT/ *ESTRIOL, urine/ FEMALE/
HUMAN/ METHODS/ *PREGNANCY/
*PREGNANEDIOL, urine

CHROMATOGRAPHY, ION EXCHANGE

Simultaneous determination of indole- and catecholamines in tissues using a weak cation-exchange resin. Barchas J, et al.

Anal Biochem 50:1-17, Nov 72

AMINES, isolation & purification/ ANIMAL
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CARBON ISOTOPES/ *CATECHOLAMINES,
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NOREPINEPHRINE, analysis/ RATS/
*SEROTONIN, analysis/ TIME FACTORS/
TRYPTAMINES, isolation & purification

Neurophysins of the sheep. Watkins WB.

Biochem J 126:759-60, Feb 72

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CHROMATOGRAPHY, ION EXCHANGE/
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HORMONES, POSTERIOR, isolation &
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Separation of LATS from sera containing both LATS and TSH by dextran-coated charcoal. Ochi Y, et al. Endocrinology 91:1389-91, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CATTLE/ CHARCOAL/
CHROMATOGRAPHY, ION EXCHANGE/
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STIMULATOR, blood/ *LONG-ACTING
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THYROTROPIN, blood/ *THYROTROPIN,
isolation & purification

Monoido-oxytocin: demonstration of its biological activity and specific binding to isolated fat cells. Thompson EE, et al.

Endocrinology 91:199-205, Nov 72

ADENYL CYCLASE, metabolism/ *ADIPOSE
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BLADDER, metabolism/ CARBON ISOTOPES/
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EPITHELIUM, metabolism/ GEL FILTRATION/
GLUCOSE, metabolism/ *IODINE, metabolism/
IODINE ISOTOPES/ METHODS/ OXYTOCIN,
analysis/ *OXYTOCIN, metabolism/ *PROTEIN
BINDING/ RATS/ SPECTRUM ANALYSIS/
SWINE/ TOADS

A pregnenolone radioimmunoassay utilizing a new fractionation technique for sheep antiserum. DiPietro DL, et al. J Clin Endocrinol Metab 35:729-35, Nov 72

ANTIBODIES, analysis/ CHROMATOGRAPHY,
ION EXCHANGE/ CHROMATOGRAPHY, THIN
LAYER/ FEMALE/ HUMAN/ *IMMUNE
SERUMS/ MALE/ METHODS/
*PREGNENOLONE, blood/ PREGNENOLONE,
metabolism/ PROTEIN BINDING/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE, metabolism/ SHEEP, immunology/
TRITIUM

A radioimmunoassay for cortisol in plasma and urine. Ruder HJ, et al.

J Clin Endocrinol Metab 35:219-24, Aug 72

CHROMATOGRAPHY, ION EXCHANGE/
CHROMATOGRAPHY, THIN LAYER/
FLUORESCENT ANTIBODY TECHNIC/
GUINEA PIGS/ *HYDROCORTISONE, analysis/
HYDROCORTISONE, blood/
HYDROCORTISONE, urine/ METHODS/
*RADIOIMMUNOASSAY/ TRITIUM

Estriol conjugates in amniotic fluid at midpregnancy and term. Young BK, et al.

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*ESTRIOL, analysis/ FEMALE/
FLUORESCENCE/ *GLUCURONATES, analysis/
HUMAN/ HYDROLYSIS/ METHODS/
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*ESTRADIOL, urine/ *ESTRIOL, urine/
*ESTROGENS, urine/ *ESTRONE, urine/
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Double isotope silution derivative technique for measurement of catecholamines. Rentzhog L.

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- chem synthesis/ MASS SPECTRUM ANALYSIS/ MATHEMATICS/ METHODS/ MICROCHEMISTRY/ PREGNANES, chem synthesis/ *PREGNENOLONE, analysis/ PREGNENOLONE, blood/ TRITIUM
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- A direct radioimmunoassay for an estrone and estradiol-17 fraction in human urine. Castanier M, et al. *J Steroid Biochem* 3:305-20, Apr 72
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EVALUATION STUDIES/ FEMALE/ FEVER, diagnosis/ FLUOROMETRY/ GELS/ HUMAN/ HYDRAZINES/ MALE/ METHODS/ MIDDLE AGE/ OXIDES/ PROGESTERONE/ SILICA

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FEMALE/ HUMAN/ HYDATIDIFORM MOLE, urine/ METHODS/ PREGNANCY/ RABBITS, immunology/ *RADIOIMMUNOASSAY/
TRITIUM

COLORIMETRY

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CATTLE/ CHILD, PRESCHOOL/
CHROMATOGRAPHY, THIN LAYER/
COLORIMETRY/ COMPARATIVE STUDY/
CROSS REACTIONS/ ESTRADIOL, blood/
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*ESTRONE, urine/ FEMALE/ FLUOROMETRY/
GLUCURONIDASE/ GONADOTROPINS,
CHORIONIC, pharmacodynamics/ HUMAN/
HYDROLYSIS/ MALE/ MENSTRUATION/
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TIME FACTORS

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*MENSTRUATION/ METHODS/ OXIMES/
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*PROTEIN BINDING/ *RADIOIMMUNOASSAY/
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TRITIUM

Determination of plasma renin activity by radioimmunoassay: comparison of results from two commercial kits with bioassay. Chervu LR, et al.

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*RADIOIMMUNOASSAY/
RADIOIMMUNOASSAY, instrumentation/
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Comparison and evaluation of a competitive protein binding and a gas-chromatographic method for the assay of testosterone in peripheral human plasma.

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CHROMATOGRAPHY, GAS/
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MALE/ METHODS/ PRECIPITATION/
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SOLUBILITY/ *TESTOSTERONE, blood/
TRITIUM

A direct radioimmunoassay for an estrone and estradiol-17 fraction in human urine. Castanier M, et al. **J Steroid Biochem** 3:305-20, Apr 72

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CHORIONIC, pharmacodynamics/ HUMAN/
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ETHYL ETHER/ EVALUATION STUDIES/
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*ESTRADIOL, blood/ *ESTRONE, blood/
FEMALE/ GEL FILTRATION/
GYNECOMASTIA, blood/ HUMAN/
HYPOGONADISM, blood/ KETOSTEROIDS,
blood/ MALE/ METHODS/ OVARY,
physiology/ PREGNANCY/ PROTEIN
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ANHYDRIDES/ BUTYRATES/ BUTYRATES,
chem synthesis/ CAPRYLATES/
CAPRYLATES, chem synthesis/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/ COMPARATIVE
STUDY/ DEHYDROEPIANDROSTERONE,
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purification/ FLUORINE/ KETOSTEROIDS,
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LAYER/ COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ ESTRADIOL, urine/ ESTRIL,
urine/ *ESTROGENS, urine/ ESTRONE, urine/
FEMALE/ HUMAN/ HYDATIDIFORM MOLE,
urine/ METHODS/ PREGNANCY/ RABBITS,
immunology/ *RADIOIMMUNOASSAY/
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REACTIONS/ FSH, blood/ GONADOTROPINS,
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ANIMAL EXPERIMENTS/ ANIMAL
NUTRITION/ BONE AND BONES, analysis/
*BONE AND BONES, radiography/ *CALCIUM,
analysis/ DECALCIFICATION, PATHOLOGIC,
radiography/ DENSITOMETRY/
DENSITOMETRY, X-RAY/ METHODS/
MINERALS, analysis/ OSTEOPOROSIS,
etiology/ *OSTEOPOROSIS, radiography/
RATS/ SPECTROPHOTOMETRY, ATOMIC
ABSORPTION

DENSITOMETRY, X-RAY

Radiographic determination of rat bone mineral loss in
dietary-induced osteoporosis. Colbert C, et al.

Invest Radiol 7:339-40, Jul-Aug 72

ANIMAL EXPERIMENTS/ ANIMAL
NUTRITION/ BONE AND BONES, analysis/
*BONE AND BONES, radiography/ *CALCIUM,
analysis/ DECALCIFICATION, PATHOLOGIC,
radiography/ DENSITOMETRY/
DENSITOMETRY, X-RAY/ METHODS/
MINERALS, analysis/ OSTEOPOROSIS,
etiology/ *OSTEOPOROSIS, radiography/
RATS/ SPECTROPHOTOMETRY, ATOMIC
ABSORPTION

[Causes of errors in bone densitometry. Possibilities
and limitations of a simplified method] Laval-Jeantet

M, et al.

J Radiol Electrol Med Nucl 53:457-64, May 72 (Fre)

*BONE AND BONES, radiography/
*DENSITOMETRY, X-RAY/ DIAGNOSTIC
ERRORS/ HUMAN/ METHODS/
TECHNOLOGY, RADIOLOGIC/ WAXES

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of the distal bones and the vertebrae] Regal R, et al.

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BONES, radiography/ CALCANEUS,
radiography/ CHILD/ *DENSITOMETRY,
X-RAY/ *EXTREMITIES, radiography/
FEMALE/ HUMAN/ MALE/ METACARPUS,
radiography/ METHODS/ MIDDLE AGE/
POSTURE/ RADIUS, radiography/ *SPINE,
radiography/ ULNA, radiography

DIAGNOSIS, DIFFERENTIAL

[Radioimmunologic estimation of blood serum
concentrations of the luteinizing hormone in the
differentiation of primary and secondary ovarian
insufficiency] Kosowicz J, et al.

Ginekol Pol 43:1213-8, Oct 72 (Eng. Abstr.) (Pol)

COMPARATIVE STUDY/ DIAGNOSIS,
DIFFERENTIAL/ ENGLISH ABSTRACT/
FEMALE/ HUMAN/ *LH, blood/ METHODS/
*OVARIAN DISEASES, diagnosis/ OVARIAN
DISEASES, etiology/ OVARIAN DISEASES,
immunology/ RADIOIMMUNOASSAY

DIALYSIS

Separation of LATS from sera containing both LATS
and TSH by dextran-coated charcoal. Ochi Y, et al.

Endocrinology 91:1389-91, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CATTLE/ CHARCOAL/
CHROMATOGRAPHY, ION EXCHANGE/
DEXTRAN/ DIALYSIS/ HUMAN/ IODINE
ISOTOPES/ LONG-ACTING THYROID
STIMULATOR, blood/ *LONG-ACTING
THYROID STIMULATOR, isolation &
purification/ METHODS/ MICE/
THYROTROPIN, blood/ *THYROTROPIN,
isolation & purification

ELECTROPHORESIS

Methodological study of the radioimmunoassay of
human thyrotrophin. Gordin A, et al.

Acta Endocrinol (Kbh) 71:24-36, Sep 72

ADULT/ AGE FACTORS/ AGED/
CHROMATOGRAPHY/ ELECTROPHORESIS/
ELECTROPHORESIS, PAPER/ FEMALE/
HUMAN/ IODINE ISOTOPES/ MALE/
METHODS/ MIDDLE AGE/ POLYVINYL/
PREGNANCY/ *RADIOIMMUNOASSAY/
TEMPERATURE/ *THYROTROPIN, blood

Neurophysins of the sheep. Watkins WB.

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ANIMAL EXPERIMENTS/
CHROMATOGRAPHY, ION EXCHANGE/
ELECTROPHORESIS/ METHODS/ *PITUITARY
HORMONES, POSTERIOR, isolation &
purification/ SHEEP

ELECTROPHORESIS, PAPER

Methodological study of the radioimmunoassay of
human thyrotrophin. Gordin A, et al.

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ADULT/ AGE FACTORS/ AGED/
CHROMATOGRAPHY/ ELECTROPHORESIS/
ELECTROPHORESIS, PAPER/ FEMALE/
HUMAN/ IODINE ISOTOPES/ MALE/
METHODS/ MIDDLE AGE/ POLYVINYL/
PREGNANCY/ *RADIOIMMUNOASSAY/
TEMPERATURE/ *THYROTROPIN, blood

ELECTROPHORESIS,

POLYACRYLAMIDE GEL

[Study on the purity of commercially available
insulin-preparations using discontinuous
polyacrylamide gel electrophoresis] Tjioe TO, et al.

Klin Wochenschr 50:882-4, 15 Sep 72 (Eng. Abstr.)
(Ger)

CATTLE/ ELECTROPHORESIS,
POLYACRYLAMIDE GEL/ ENGLISH
ABSTRACT/ GERMANY, WEST/ INSULIN,
analysis/ *INSULIN, standards/ METHODS/
PROINSULIN/ SWINE

FLUORESCENCE

Simultaneous determination of indole- and catecholamines in tissues using a weak cation-exchange resin. Barchas J, et al.

Anal Biochem 50:1-17, Nov 72

AMINES, isolation & purification/ ANIMAL EXPERIMENTS/ BRAIN CHEMISTRY/ CARBON ISOTOPES/ *CATECHOLAMINES, analysis/ CATECHOLAMINES, isolation & purification/ CATS/ CHROMATOGRAPHY, ION EXCHANGE/ COLD/ DOPAMINE, analysis/ DRUG STABILITY/ EPINEPHRINE, analysis/ EVALUATION STUDIES/ FLUORESCENCE/ FLUORESCENCE SPECTROMETRY/ HAMSTERS/ HYDROGEN-ION CONCENTRATION/ METHODS/ MICE/ NOREPINEPHRINE, analysis/ RATS/ *SEROTONIN, analysis/ TIME FACTORS/ TRYPTAMINES, isolation & purification

Separation of pineal extracts on Sephadex G-10. 3. Isolation and comparison of extracted and synthetic melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CHEMISTRY/ CHROMATOGRAPHY, THIN LAYER/ CHROMATOPHORES, drug effects/ FLUORESCENCE/ FLUORESCENCE SPECTROMETRY/ GEL FILTRATION/ LARVA, drug effects/ MASS SPECTRUM ANALYSIS/ MELATONIN, analysis/ *MELATONIN, isolation & purification/ MELATONIN, pharmacodynamics/ METHODS/ NUCLEAR MAGNETIC RESONANCE/ *PINEAL BODY, analysis/ PROTONS/ SHEEP/ SOLUBILITY/ SPECTROPHOTOMETRY, INFRARED/ WATER/ XENOPUS, drug effects

Fluorescent excitation analysis: a simplified method of iodine determination in vitro. Moss AA, et al.

Invest Radiol 7:335-8, Jul-Aug 72

AMERICIUM/ ANIMAL EXPERIMENTS/ BILE, analysis/ ELECTRONS/ *FLUORESCENCE/ FLUORESCENCE SPECTROMETRY/ *IODINE, analysis/ IODINE, blood/ IODINE, urine/ METHODS/ *SPECTRUM ANALYSIS

Estriol conjugates in amniotic fluid at midpregnancy and term. Young BK, et al.

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[Catecholamine fluorescence as sign of vital reaction at cut surfaces of the spermatid cord in the rat] Penttilä A.

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[Fluorometric method of determination of 11-hydroxycorticosteroids in the serum of children] Raczynska B, et al.

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FLUORESCENCE SPECTROMETRY

Simultaneous determination of indole- and catecholamines in tissues using a weak cation-exchange resin. Barchas J, et al.

Anal Biochem 50:1-17, Nov 72

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Separation of pineal extracts on Sephadex G-10. 3. Isolation and comparison of extracted and synthetic melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CHEMISTRY/ CHROMATOGRAPHY, THIN LAYER/ CHROMATOPHORES, drug effects/ FLUORESCENCE/ FLUORESCENCE SPECTROMETRY/ GEL FILTRATION/ LARVA, drug effects/ MASS SPECTRUM ANALYSIS/ MELATONIN, analysis/ *MELATONIN, isolation & purification/ MELATONIN, pharmacodynamics/ METHODS/ NUCLEAR MAGNETIC RESONANCE/ *PINEAL BODY, analysis/ PROTONS/ SHEEP/ SOLUBILITY/ SPECTROPHOTOMETRY, INFRARED/ WATER/ XENOPUS, drug effects

Fluorescent excitation analysis: a simplified method of iodine determination in vitro. Moss AA, et al.

Invest Radiol 7:335-8, Jul-Aug 72

AMERICIUM/ ANIMAL EXPERIMENTS/ BILE, analysis/ ELECTRONS/ *FLUORESCENCE/ FLUORESCENCE SPECTROMETRY/ *IODINE, analysis/ IODINE, blood/ IODINE, urine/ METHODS/ *SPECTRUM ANALYSIS

FLUORESCENT ANTIBODY TECHNIC

Demonstration of insulin in an islet cell pancreatic adenoma using an immunofluorescent technique. Thomsen OF.

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Fluorescence studies using anti-nerve growth factor.

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The immunohistological demonstration of insulin in pancreatic tissue. Federlin K, et al.

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The demonstration of hormones in tissues by means of antibodies. Methodological problems in the use of immunohistological techniques for the localization of hormones. Kracht J, et al.

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COMPLEX/ *ANTIGENS/ ENZYMES/
FLUORESCENCE/ FLUORESCENT ANTIBODY
TECHNIC/ *HORMONES, analysis/
HORMONES, chem synthesis/ METHODS/
PEPTIDES/ POLYMERS/ SERUM ALBUMIN/
SPECIES SPECIFICITY

A radioimmunoassay for cortisol in plasma and urine. Ruder HJ, et al.

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CHROMATOGRAPHY, THIN LAYER/
FLUORESCENT ANTIBODY TECHNIC/
GUINEA PIGS/ *HYDROCORTISONE, analysis/
HYDROCORTISONE, blood/
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*RADIOIMMUNOASSAY/ TRITIUM

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C R Acad Sci [D] (Paris) 275:413-5, 17 Jul 72 (Fre)
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CROSS REACTIONS/ FLUORESCENT
ANTIBODY TECHNIC/ IMMUNE SERUMS/
IMMUNOGLOBULINS/ *INSULIN, analysis/
INSULIN ANTIBODIES/ ISLANDS OF
LANGERHANS, embryology/ ISLANDS OF
LANGERHANS, immunology/ METHODS/
*PANCREAS, embryology/ PANCREAS,
immunology/ PEROXIDASES/ STAINS AND
STAINING/ TIME FACTORS

STANDARDS

Methodological aspects in the immunohistological detection of pituitary hormones. Breustedt HJ.

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CHROMATOGRAPHY/ CORTICOTROPIN,
analysis/ *FLUORESCENT ANTIBODY
TECHNIC, standards/ GAMMA GLOBULIN/
GOATS, immunology/ HUMAN/ IMMUNE
SERUMS/ METHODS/ *PITUITARY
HORMONES, analysis/ RABBITS, immunology/
RATS/ SPECIES SPECIFICITY

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New gas chromatographic method for estimation of norepinephrine and dopamine in brain. Maruyama Y, et al. **Anal Biochem** 49:240-7, Sep 72

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CHEMISTRY/ *CHROMATOGRAPHY, GAS/
*DOPAMINE, analysis/ FLUOROMETRY/
IMIDAZOLES/ MALE/ METHODS/ MICE/
*NOREPINEPHRINE, analysis/
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CATTLE/ CHILD, PRESCHOOL/
CHROMATOGRAPHY, THIN LAYER/
COLORIMETRY/ COMPARATIVE STUDY/
CROSS REACTIONS/ ESTRADIOL, blood/
*ESTRADIOL, urine/ ESTRONE, blood/
*ESTRONE, urine/ FEMALE/ FLUOROMETRY/
GLUCURONIDASE/ GONADOTROPINS,
CHORIONIC, pharmacodynamics/ HUMAN/
HYDROLYSIS/ MALE/ MENSTRUATION/
METHODS/ RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ SNAILS/ SUCCINATES/
SULFATASES/ TRITIUM

A method for the determination of 3,4-dihydroxyphenylalanine (DOPA) in brain. Kehr W, et al.

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ALCOHOL, METHYL/ ANIMAL
EXPERIMENTS/ *BRAIN CHEMISTRY/
BUFFERS/ CHROMATOGRAPHY, ION

EXCHANGE/ *DOPA, analysis/ FEMALE/
FLUOROMETRY/ HYDROGEN-ION
CONCENTRATION/ HYDROXYINDOLEACETIC
ACID, analysis/ HYDROXYTRYPTOPHAN,
analysis/ MALE/ METHODS/ RATS/ TISSUE
EXTRACTS, analysis

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C R Soc Biol (Paris) 165:1998-2004, 1971 (Fre)
*AGGRESSION/ ANIMAL EXPERIMENTS/
*BEHAVIOR, ANIMAL/ CENTRAL NERVOUS
SYSTEM, physiology/ EMOTIONS/
*EPINEPHRINE, urine/ FLUOROMETRY/
METHODS/ MICE/ *NOREPINEPHRINE, urine/
OLFACTORY BULB, physiology/ RATS

[Results of an intravenous ACTH rapid test in the diagnosis of adrenal insufficiency] Knappe G, et al.

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ADRENAL CORTEX HORMONES, blood/
ADRENAL GLAND HYPOFUNCTION,
diagnosis/ *ADRENAL GLAND
HYPOFUNCTION, diagnosis/
*CORTICOTROPIN, diagnostic use/ ENGLISH
ABSTRACT/ FLUOROMETRY/ HUMAN/
INJECTIONS, INTRAVENOUS/ METHODS/
PITUITARY-ADRENAL FUNCTION TESTS

[A method for the determination of free etiocholanolone in plasma] Graef V.
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ADOLESCENCE/ ADULT/ ALUMINUM/
CHROMATOGRAPHY, THIN LAYER/ DANSYL
COMPOUNDS/ DINITROPHENOLS/ ENGLISH
ABSTRACT/ *ETIOCHOLANOLONE, blood/
EVALUATION STUDIES/ FEMALE/ FEVER,
diagnosis/ FLUOROMETRY/ GELS/ HUMAN/
HYDRAZINES/ MALE/ METHODS/ MIDDLE
AGE/ OXIDES/ PROGESTERONE/ SILICA

GEL FILTRATION

Separation of pineal extracts on Sephadex G-10. 3. Isolation and comparison of extracted and synthetic melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
THIN LAYER/ CHROMATOPHORES, drug
effects/ FLUORESCENCE/ FLUORESCENCE
SPECTROMETRY/ GEL FILTRATION/
LARVA, drug effects/ MASS SPECTRUM
ANALYSIS/ MELATONIN, analysis/
*MELATONIN, isolation & purification/
MELATONIN, pharmacodynamics/ METHODS/
NUCLEAR MAGNETIC RESONANCE/
*PINEAL BODY, analysis/ PROTONS/ SHEEP/
SOLUBILITY/ SPECTROPHOTOMETRY,
INFRARED/ WATER/ XENOPUS, drug effects

Monoido-oxytocin: demonstration of its biological activity and specific binding to isolated fat cells. Thompson EE, et al.

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TISSUE, metabolism/ ANIMAL
EXPERIMENTS/ BLADDER, enzymology/
BLADDER, metabolism/ CARBON ISOTOPES/
CATTLE/ CHROMATOGRAPHY, ION
EXCHANGE/ EPITHELIUM, enzymology/
EPITHELIUM, metabolism/ GEL FILTRATION/
GLUCOSE, metabolism/ *IODINE, metabolism/
IODINE ISOTOPES/ METHODS/ OXYTOCIN,
analysis/ *OXYTOCIN, metabolism/ *PROTEIN
BINDING/ RATS/ SPECTRUM ANALYSIS/
SWINE/ TOADS

A simplified assay for somatomedin. Alford FP, et al.

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CHONDROITIN/ GEL FILTRATION/ MALE/
METHODS/ RATS/ *SOMATOMEDIN, analysis/
SULFUR ISOTOPES

Radioimmunoassay of plasma testosterone. Collins WP, et al. **J Steroid Biochem** 3:333-48, Apr 72
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CATTLE/ CHARCOAL/ CHROMATOGRAPHY,

GAS/ COMPARATIVE STUDY/ DEXTRAN/
ETHYL ETHER/ EVALUATION STUDIES/
FEMALE/ GEL FILTRATION/ HUMAN/
MALE/ MATHEMATICS/ MENSTRUATION/
METHODS/ OXIMES/ PROTEIN BINDING/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SOLUBILITY/ SUCCINATES/
*TESTOSTERONE, blood

A simple procedure for the combined determination of plasma estrogen and androgen concentrations by competitive protein binding analysis. Concolino G, et al. *J Steroid Biochem* 3:725-33, Jun 72
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CASTRATION/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ CYTOPLASM/
*ESTRADIOL, blood/ *ESTRONE, blood/
FEMALE/ GEL FILTRATION/
GYNECOMASTIA, blood/ HUMAN/
HYPOGONADISM, blood/ KETOSTEROIDS, blood/ MALE/ METHODS/ OVARY, physiology/ PREGNANCY/ PROTEIN BINDING/ RABBITS/ SILICA/
*TESTOSTERONE, blood/ TRITIUM/ UTERUS, cytology

Steroid glucuronoside-BSA complexes as antigens: the radioimmunoassay of steroid conjugates. Kellie AE, et al. *J Steroid Biochem* 3:275-88, Apr 72
*ANTIBODY FORMATION/ ANTIGENS/
BINDING SITES, ANTIBODY/ CATTLE/
CHEMISTRY/ CROSS REACTIONS/
*DEHYDROEPIANDROSTERONE, analysis/
*ESTRADIOL, analysis/ ESTRIOL/ ESTRONE/
GEL FILTRATION/ *GLUCURONATES/
*GLYCOSIDES/ HAPTENS/ METHODS/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
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*TESTOSTERONE, analysis/ TRITIUM

Problems arising from blanks in protein-binding analysis. Pizarro MA, et al.

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*HYDROCORTISONE, analysis/ MAGNESIUM/ METHODS/ *PROGESTERONE, analysis/
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Estimation of human chorionic somatomammotropin (HCS) levels during normal pregnancy using a rapid radioimmunoassay. Lindberg B, et al.

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CIRCADIAN RHYTHM/ FEMALE/ GEL FILTRATION/ HUMAN/ IODINE ISOTOPES, DIAGNOSTIC/ METHODS/ *PLACENTAL LACTOGEN, blood/ *PREGNANCY/ PREGNANCY COMPLICATIONS, blood/
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[Radioimmunological determination in the "solid phase" of the growth hormone and luteinizing gonadotropin in the human plasma] Giustina G, et al. *Ann Ist Super Sanita* 7:436-9, 1971 (Ita)
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GEL FILTRATION/ GONADOTROPINS, CHORIONIC, blood/ HUMAN/ *LH, blood/
MALE/ MENOTROPINS, blood/ METHODS/
*RADIOIMMUNOASSAY/ *SOMATOTROPIN, blood/ THYROTROPIN, blood

HISTOCYTOCHEMISTRY

Simultaneous demonstration of catecholamines and acetylcholinesterase in peripheral autonomic nerves. Ellison JP, et al. *Am J Anat* 135:23-32, Sep 72
*ACETYLCHOLINESTERASE, analysis/
ANIMAL EXPERIMENTS/
CATECHOLAMINES, analysis/ CATS/
CHOLINE/ CHROMAFFIN SYSTEM, cytology/
FORMALDEHYDE/ FREEZING/ *GANGLIA, AUTONOMIC, analysis/ GANGLIA, AUTONOMIC, cytology/ GANGLIA, AUTONOMIC, enzymology/ GUINEA PIGS/
HEART CONDUCTION SYSTEM, cytology/

HISTOCYTOCHEMISTRY/ HISTOLOGICAL TECHNIQS/ METHODS/ MICROSCOPY, FLUORESCENCE/ NIALAMIDE/
NOREPINEPHRINE/ PERFUSION/
*PERIPHERAL NERVES, analysis/
PERIPHERAL NERVES, cytology/
PERIPHERAL NERVES, enzymology

[Catecholamine fluorescence as sign of vital reaction at cut surfaces of the spermatic cord in the rat] Penttilä A.

Beitr Gerichtl Med 29:104-12, 1972 (Eng. Abstr.) (Ger)
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CATECHOLAMINES, analysis/ ENGLISH ABSTRACT/ *FLUORESCENCE/
HISTOCYTOCHEMISTRY/ MALE/ METHODS/
MICROTOMY/ RATS/ *SPERMATIC CORD, analysis/ SPERMATIC CORD, injuries

[Demonstration of thyrotropin-secreting cells of the adenohypophysis by aromatic diamines] Klessen C. *Histochemie* 32:59-66, 1972 (Eng. Abstr.) (Ger)
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PITUITARY GLAND, analysis/ *PITUITARY GLAND, cytology/ RATS/ THYROTROPIN, analysis/ *THYROTROPIN, secretion

HISTOLOGICAL TECHNIQS

Simultaneous demonstration of catecholamines and acetylcholinesterase in peripheral autonomic nerves. Ellison JP, et al. *Am J Anat* 135:23-32, Sep 72

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CATECHOLAMINES, analysis/ CATS/
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FORMALDEHYDE/ FREEZING/ *GANGLIA, AUTONOMIC, analysis/ GANGLIA, AUTONOMIC, cytology/ GANGLIA, AUTONOMIC, enzymology/ GUINEA PIGS/
HEART CONDUCTION SYSTEM, cytology/
HISTOCYTOCHEMISTRY/ HISTOLOGICAL TECHNIQS/ METHODS/ MICROSCOPY, FLUORESCENCE/ NIALAMIDE/
NOREPINEPHRINE/ PERFUSION/
*PERIPHERAL NERVES, analysis/
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IMMUNOELECTROPHORESIS

Fluorescence studies using anti-nerve growth factor.

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INTESTINAL MUCOSA, immunology/ MALE/ METHODS/ MICE/ MICROSCOPY, FLUORESCENCE/ MICROSCOPY, PHASE CONTRAST/ *NERVE GROWTH FACTOR, analysis/ RABBITS/ RABBITS, immunology/
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IMMUNOELECTROPHORESIS/ METHODS/
PLACENTAL EXTRACTS, analysis/
*PLACENTAL LACTOGEN, isolation & purification/ PRECIPITATION/ PREGNANCY/
RADIOIMMUNOASSAY

ION EXCHANGE RESINS

Radioimmunoassay of insulin: comparison of different separation techniques. Raptis S.

Horm Metab Res 3:Suppl 3:26-8, 1971
ANTIGEN-ANTIBODY COMPLEX/ HUMAN/
IMMUNE SERUMS/ INSULIN, analysis/
*INSULIN, isolation & purification/ INSULIN ANTIBODIES/ IODINE ISOTOPES/ ION EXCHANGE RESINS/ METHODS/
*RADIOIMMUNOASSAY

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 (Ger)

ADULT/ ANGIOTENSIN, analysis/ BUFFERS/
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 ENGLISH ABSTRACT/ FREEZE DRYING/
 HUMAN/ INDICATORS AND REAGENTS/
 INFANT/ ION EXCHANGE RESINS/
 METHODS/ MIDDLE AGE/ POSTURE/
 *RENIN, blood/ SHEEP/ TIME FACTORS/
 TROMETHAMINE

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 of acid digestion and of thyroxine by means of ion
 exchange resin column] Spandrio L, et al.

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ACETIC ACIDS/ COLORIMETRY/
 DIGESTION/ HUMAN/ ION EXCHANGE
 RESINS/ METHODS/ *PROTEIN-BOUND
 IODINE TEST/ *THYROXINE, blood

MASS SPECTRUM ANALYSIS

Separation of pineal extracts on Sephadex G-10. 3.
 Isolation and comparison of extracted and synthetic
 melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
 ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
 THIN LAYER/ CHROMATOPHORES, drug
 effects/ FLUORESCENCE/ FLUORESCENCE
 SPECTROMETRY/ GEL FILTRATION/
 LARVA, drug effects/ MASS SPECTRUM
 ANALYSIS/ MELATONIN, analysis/
 *MELATONIN, isolation & purification/
 MELATONIN, pharmacodynamics/ METHODS/
 NUCLEAR MAGNETIC RESONANCE/
 *PINEAL BODY, analysis/ PROTONS/ SHEEP/
 SOLUBILITY/ SPECTROPHOTOMETRY,
 INFRARED/ WATER/ XENOPUS, drug effects

Method for the determination of pregnenolone in
 biological samples using gas-phase chromatography.
 Pulsinelli WP, et al. *Anal Biochem* 49:559-68, Oct 72

ACETIC ACIDS/ ACETIC ACIDS, chem
 synthesis/ ACYLATION/ ALCOHOL
 OXIDOREDUCTASES/ ANHYDRIDES/
 CHEMISTRY/ CHLORINE/
 *CHROMATOGRAPHY, GAS/
 CHROMATOGRAPHY, PAPER/
 CHROMATOGRAPHY, THIN LAYER/ DOGS/
 HYDROXYSTERIODS/ HYDROXYSTERIODS,
 chem synthesis/ MASS SPECTRUM
 ANALYSIS/ MATHEMATICS/ METHODS/
 MICROCHEMISTRY/ PREGNANES, chem
 synthesis/ *PREGNENOLONE, analysis/
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 ANALYSIS/ METHODS/ *MILK, analysis/
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 SPECTRUM ANALYSIS/ METHODS/
 PREDNISOLONE, analysis/ *PREDNISOLONE,
 analysis/ *STERIODS, analysis/ ULTRAVIOLET
 RAYS/ WATER

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 *CHROMATOGRAPHY, GAS/ ETHERS, chem
 synthesis/ FLUORINE/ HYDROXYSTERIODS/
 HYDROXYSTERIODS, chem synthesis/
 HYDROXYSTERIODS, isolation & purification/
 IMIDAZOLES/ KETOSTEROIDS/
 KETOSTEROIDS, chem synthesis/

KETOSTEROIDS, isolation & purification/
 KINETICS/ MASS SPECTRUM ANALYSIS/
 METHODS/ PREGNANES/ PREGNANES, chem
 synthesis/ *PREGNANES, isolation &
 purification/ *SILICON/ STEREOISOMERS

MICROCHEMISTRY

Method for the determination of pregnenolone in
 biological samples using gas-phase chromatography.
 Pulsinelli WP, et al. *Anal Biochem* 49:559-68, Oct 72

ACETIC ACIDS/ ACETIC ACIDS, chem
 synthesis/ ACYLATION/ ALCOHOL
 OXIDOREDUCTASES/ ANHYDRIDES/
 CHEMISTRY/ CHLORINE/
 *CHROMATOGRAPHY, GAS/
 CHROMATOGRAPHY, PAPER/
 CHROMATOGRAPHY, THIN LAYER/ DOGS/
 HYDROXYSTERIODS/ HYDROXYSTERIODS,
 chem synthesis/ MASS SPECTRUM
 ANALYSIS/ MATHEMATICS/ METHODS/
 MICROCHEMISTRY/ PREGNANES, chem
 synthesis/ *PREGNENOLONE, analysis/
 PREGNENOLONE, blood/ TRITIUM

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 estradiol, and estriol in low titer urine. Morreal CE, et
 al. *Steroids* 20:383-97, Oct 72

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 GAS/ CHROMATOGRAPHY, ION EXCHANGE/
 CHROMATOGRAPHY, THIN LAYER/
 *ESTRADIOL, urine/ *ESTRIOL, urine/
 *ESTROGENS, urine/ *ESTRONE, urine/
 ETHYL ETHER/ FEMALE/ HUMAN/ MALE/
 METHODS/ MICROCHEMISTRY/ MIDDLE
 AGE/ PHENOLS/ SOLUBILITY/ TRITIUM

NUCLEAR MAGNETIC RESONANCE

Separation of pineal extracts on Sephadex G-10. 3.
 Isolation and comparison of extracted and synthetic
 melatonin. Ebels I, et al.

Anal Biochem 50:234-44, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
 ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
 THIN LAYER/ CHROMATOPHORES, drug
 effects/ FLUORESCENCE/ FLUORESCENCE
 SPECTROMETRY/ GEL FILTRATION/
 LARVA, drug effects/ MASS SPECTRUM
 ANALYSIS/ MELATONIN, analysis/
 *MELATONIN, isolation & purification/
 MELATONIN, pharmacodynamics/ METHODS/
 NUCLEAR MAGNETIC RESONANCE/
 *PINEAL BODY, analysis/ PROTONS/ SHEEP/
 SOLUBILITY/ SPECTROPHOTOMETRY,
 INFRARED/ WATER/ XENOPUS, drug effects

ORGAN WEIGHT

The rat ovarian augmentation method for follicle
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 Christiansen P.

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 ASSAY/ CORTICOTROPIN, pharmacodynamics/
 *FSH, analysis/ GONADOTROPINS,
 CHORIONIC, pharmacodynamics/ GRAAFIAN
 FOLLICLE, drug effects/ HUMAN/ IN
 VITRO/ LH, pharmacodynamics/ MALE/
 METHODS/ ORGAN WEIGHT/ OVARY, drug
 effects/ PROLACTIN, pharmacodynamics/
 RATS/ SHEEP/ SOMATOTROPIN,
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ACTH, corticoids and luteal function in heifers.
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*ADRENAL CORTEX HORMONES, blood/
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 *CATTLE, physiology/ CHROMATOGRAPHY,
 THIN LAYER/ CORPUS LUTEUM, analysis/
 CORPUS LUTEUM, anatomy & histology/
 *CORPUS LUTEUM, drug effects/
 CORTICOTROPIN, administration & dosage/
 *CORTICOTROPIN, pharmacodynamics/
 ESTRUS, drug effects/ FEMALE/
 FLUMETHASONE, administration & dosage/
 FLUMETHASONE, pharmacodynamics/
 INJECTIONS, INTRAMUSCULAR/ ISOTONIC
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PROGESTERONE, analysis/ PROGESTERONE, blood

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Double isotope silution derivative technique for measurement of catecholamines. Rentzhog L. *Acta Physiol Scand* [Suppl] 377:1-100, 1972

ACETIC ACIDS/ CARBON ISOTOPES/
*CATECHOLAMINES, analysis/
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CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/ DOPA, isolation & purification/ EDTA/
EPINEPHRINE, isolation & purification/
FREEZE DRYING/ HYDROXYLASES/
ISOPROTERENOL, isolation & purification/
ISOTOPE LABELING/ METHODS/
NOREPINEPHRINE, isolation & purification/
PRECIPITATION/ PROTEINS/
*RADIOISOTOPE DILUTION TECHNIC/
TRITIUM/ TRYPTAMINES

Comparison and evaluation of a competitive protein binding and a gas-chromatographic method for the assay of testosterone in peripheral human plasma. Benraad TJ, et al. *J Steroid Biochem* 3:325-31, Apr 72

AMMONIUM SULFATE/ CHLOROFORM/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ ETHYL ETHER/
EVALUATION STUDIES/ FEMALE/ HUMAN/
MALE/ METHODS/ PRECIPITATION/
PREGNANCY/ PROTEIN BINDING/
SOLUBILITY/ *TESTOSTERONE, blood/
TRITIUM

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FEMALE/ HUMAN/
IMMUNOELECTROPHORESIS/ METHODS/
PLACENTAL EXTRACTS, analysis/
*PLACENTAL LACTOGEN, isolation & purification/ PRECIPITATION/ PREGNANCY/
RADIOIMMUNOASSAY

PROTEIN BINDING

Determination of oestradiol-17beta and oestrone in human plasma. Hawkins RA, et al. *Biochem J* 126:11P-12P, Feb 72

*ESTRADIOL, blood/ *ESTRONE, blood/
FEMALE/ HUMAN/ METHODS/ PROTEIN BINDING/ TRITIUM

Solid-phase radioimmunoassay of ovine prolactin in antibody-coated tubes. Prolactin secretion during estradiol treatment, at parturition, and during milking. Fell LR, et al. *Endocrinology* 91:1329-36, Nov 72

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CROSS REACTIONS/ *ESTRADIOL, pharmacodynamics/ FEMALE/ HORSES, immunology/ IODINE ISOTOPES/ *LABOR/
*LACTATION/ LH, blood/ METHODS/
*PROLACTIN, blood/ PROTEIN BINDING/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SHEEP/
SOMATOTROPIN, blood/ TURKEYS, immunology

Monoldo-oxytocin: demonstration of its biological activity and specific binding to isolated fat cells. Thompson EE, et al. *Endocrinology* 91:1199-205, Nov 72

ADENYL CYCLASE, metabolism/ *ADIPOSE TISSUE, metabolism/ ANIMAL EXPERIMENTS/ BLADDER, enzymology/
BLADDER, metabolism/ CARBON ISOTOPES/
CATTLE/ CHROMATOGRAPHY, ION EXCHANGE/ EPITHELIUM, enzymology/
EPITHELIUM, metabolism/ GEL FILTRATION/
GLUCOSE, metabolism/ *IODINE, metabolism/
IODINE ISOTOPES/ METHODS/ OXYTOCIN, analysis/ *OXYTOCIN, metabolism/ *PROTEIN BINDING/ RATS/ SPECTRUM ANALYSIS/
SWINE/ TOADS

Corrections for protein interference in rat growth

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METHODS/ *PROTEIN BINDING/
*RADIOIMMUNOASSAY/ RATS/
*SOMATOTROPIN, analysis

A pregnenolone radioimmunoassay utilizing a new fractionation technique for sheep antiserum. DiPietro DL, et al. *J Clin Endocrinol Metab* 35:729-35, Nov 72

ANTIBODIES, analysis/ CHROMATOGRAPHY, ION EXCHANGE/ CHROMATOGRAPHY, THIN LAYER/ FEMALE/ HUMAN/ *IMMUNE SERUMS/ MALE/ METHODS/
*PREGNENOLONE, blood/ PREGNENOLONE, metabolism/ PROTEIN BINDING/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE, metabolism/ SHEEP, immunology/
TRITIUM

Maintenance of pregnancy by synthetic progestagens in guinea-pigs ovariectomized before implantation; progesterone-binding protein and placental progesterone secretion. Illingworth DV, et al. *J Endocrinol* 54:435-44, Sep 72

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FEMALE/ GUINEA PIGS/
MEDROXYPROGESTERONE, pharmacodynamics/ METABOLIC CLEARANCE RATE/ METHODS/ NIDATION/ NORGESTREL, pharmacodynamics/ PLACENTA, metabolism/
*PLACENTA, secretion/ PREGNANCY/
*PREGNANCY, ANIMAL/ *PROGESTATIONAL HORMONES, pharmacodynamics/
PROGESTERONE, biosynthesis/
PROGESTERONE, blood/ PROGESTERONE, metabolism/ *PROGESTERONE, secretion/
*PROTEIN BINDING/ SERUM GLOBULINS, analysis/ TIME FACTORS

A comparison of the competitive protein-binding assay and radioimmunoassay for plasma progesterone during the normal menstrual cycle. Morgan CA, et al. *J Endocrinol* 54:445-56, Sep 72

CHARCOAL/ CHICKENS/ COMPARATIVE STUDY/ DEXTRAN/ FEMALE/ GOATS, immunology/ HUMAN/ IMMUNE SERUMS/
*MENSTRUATION/ METHODS/ OXIMES/
PETROLEUM/ *PROGESTERONE, blood/
*PROTEIN BINDING/ *RADIOIMMUNOASSAY/
SERUM ALBUMIN, BOVINE/ SUCCINATES/
TRITIUM

An improved radioimmunoassay of triiodothyronine in serum: its application to clinical and physiological studies. Chopra IJ, et al. *J Lab Clin Med* 80:729-39, Nov 72

ANILINE COMPOUNDS, diagnostic use/
BINDING, COMPETITIVE/ HUMAN/
HYPERTHYROIDISM, diagnosis/
HYPOTHYROIDISM, diagnosis/ IMMUNE SERUMS/ IODINE ISOTOPES, DIAGNOSTIC/
METHODS/ NAPHTHALENES, diagnostic use/
PROTEIN BINDING/ RABBITS, immunology/
*RADIOIMMUNOASSAY/ SHEEP, immunology/
SULFONIC ACIDS, diagnostic use/
THYROTROPIN, diagnostic use/
THYROXINE-BINDING PROTEIN/ TIME FACTORS/ *TRIIODOTHYRONINE, blood

Comparison and evaluation of a competitive protein binding and a gas-chromatographic method for the assay of testosterone in peripheral human plasma. Benraad TJ, et al. *J Steroid Biochem* 3:325-31, Apr 72

AMMONIUM SULFATE/ CHLOROFORM/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ ETHYL ETHER/
EVALUATION STUDIES/ FEMALE/ HUMAN/
MALE/ METHODS/ PRECIPITATION/
PREGNANCY/ PROTEIN BINDING/
SOLUBILITY/ *TESTOSTERONE, blood/
TRITIUM

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CATTLE/ CHARCOAL/ CHROMATOGRAPHY, GAS/ COMPARATIVE STUDY/ DEXTRAN/

ETHYL ETHER/ EVALUATION STUDIES/
FEMALE/ GEL FILTRATION/ HUMAN/
MALE/ MATHEMATICS/ MENSTRUATION/
METHODS/ OXIMES/ PROTEIN BINDING/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SOLUBILITY/ SUCCINATES/
*TESTOSTERONE, blood

A simple procedure for the combined determination of plasma estrogen and androgen concentrations by competitive protein binding analysis. Concolino G, et al. *J Steroid Biochem* 3:725-33, Jun 72

ADULT/ *ANDROSTENES, blood/ BINDING,
COMPETITIVE/ BLOOD PROTEINS/
CASTRATION/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ CYTOPLASM/
*ESTRADIOL, blood/ *ESTRONE, blood/
FEMALE/ GEL FILTRATION/
GYNECOMASTIA, blood/ HUMAN/
HYPOGONADISM, blood/ KETOSTEROIDS,
blood/ MALE/ METHODS/ OVARY,
physiology/ PREGNANCY/ PROTEIN
BINDING/ RABBITS/ SILICA/
*TESTOSTERONE, blood/ TRITIUM/ UTERUS,
cytology

Routine clinical determination of testosterone in plasma by competitive-protein-binding. Dessypris A, et al. *J Steroid Biochem* 3:19-30, Jan 72

ADOLESCENCE/ ADULT/ ANDROSTANES,
blood/ ANDROSTENOL, blood/
ANDROSTERONE, blood/ BINDING,
COMPETITIVE/ BINDING SITES/ BLOOD
PROTEINS, metabolism/ CHILD/
CHROMATOGRAPHY/
DEHYDROEPIANDROSTERONE, blood/
ESTRADIOL, blood/ ETIOCHOLANOLONE,
blood/ FEMALE/ HUMAN/
HYDROCORTISONE, blood/
HYDROXYPROGESTERONE, blood/ MALE/
METHODS/ MIDDLE AGE/ PREGNANCY/
PREGNANCY, MULTIPLE/ PREGNANEDIOL,
blood/ PREGNANETRIOL, blood/
PROGESTERONE, blood/ *PROTEIN BINDING/
*TESTOSTERONE, blood/ TRITIUM/ TWINS

Problems arising from blanks in protein-binding analysis. Pizarro MA, et al.

J Steroid Biochem 3:349-56, Apr 72

CHARCOAL/ CHROMATOGRAPHY, THIN
LAYER/ *CORTICOSTERONE, analysis/
CORTICOTROPIN/ DEXTRAN/ GEL
FILTRATION/ GLASS/ HEAT/ HUMAN/
*HYDROCORTISONE, analysis/ MAGNESIUM/
METHODS/ *PROGESTERONE, analysis/
*PROTEIN BINDING/ SILICA/ TRITIUM

Mathematical theory of radioligand assays: the kinetics of separation of bound from free. Rodbard D, et al.

J Steroid Biochem 3:255-73, Apr 72

ADSORPTION/ BINDING SITES, ANTIBODY/
CARRIER PROTEINS/ CATTLE/ CHARCOAL/
COMPUTERS, DIGITAL/ DOSE-RESPONSE
RELATIONSHIP, DRUG/ *ESTRADIOL,
analysis/ IMMUNE SERUMS/ KINETICS/
MATHEMATICS/ METHODS/ MODELS,
CHEMICAL/ PREGNANCY/ PROTEIN
BINDING/ *RADIOIMMUNOASSAY/
*RADIOLIGAND ASSAY/ SERUM ALBUMIN,
BOVINE/ SERUM GLOBULINS/
TEMPERATURE/ TESTOSTERONE/ TRITIUM

Competitive protein binding assay of corticosterone. Spät A, et al. *J Steroid Biochem* 3:755-9, Jun 72

ADRENAL GLANDS, physiology/
ADRENALECTOMY/ ALDOSTERONE, blood/
ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ BLOOD, drug effects/ BLOOD
PROTEINS/ CHROMATOGRAPHY, THIN
LAYER/ *CORTICOSTERONE, blood/
DEXAMETHASONE, pharmacodynamics/
FORMALDEHYDE, pharmacodynamics/
MAGNESIUM/ MALE/ MATHEMATICS/
METHODS/ MICE/ PROGESTERONE, blood/
PROTEIN BINDING/ RATS/ SILICA/ STRESS,
blood/ TRITIUM

Plasma-corticosteroid determinations for assessment of pituitary response to metyrapone. Natrass M, et al.

Lancet 2:903-4, 28 Oct 72

ADMINISTRATION, ORAL/ ADULT/
CORTICOTROPIN, secretion/ FEMALE/
HUMAN/ HYDROCORTISONE, blood/
11-HYDROXYCORTICOSTEROIDS, blood/
17-HYDROXYCORTICOSTEROIDS, urine/
*HYDROXYCORTICOSTEROIDS, blood/
HYDROXYLASES, antagonists & inhibitors/
MALE/ METHODS/ METYRAPONE,
administration & dosage/ *METYRAPONE,
diagnostic use/ *PITUITARY GLAND
FUNCTION TESTS/ PROTEIN BINDING

[Competitive protein binding assay for the determination of estradiol-17-beta in the blood] Den K, et al. *Clin Endocrinol (Tokyo)* 20:503-9, Jun 72 (Jap)
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blood/ FEMALE/ METHODS/ PREGNANCY/
PROTEIN BINDING/ RABBITS/ TRITIUM

[Competitive protein binding assay of testosterone in the blood] Hosaka M, et al.

Clin Endocrinol (Tokyo) 20:583-9, Jul 72 (Jap)

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HUMAN/ MALE/ METHODS/ MIDDLE AGE/
PROTEIN BINDING/ *TESTOSTERONE, blood/
TRITIUM

[Isotope method of thyroxine determination based on the binding properties of serum proteins] Gembicka D, et al.

Pol Arch Med Wewn 49:215-22, Sep 72 (Eng. Abstr.) (Poi)

*BLOOD PROTEINS, metabolism/ ENGLISH
ABSTRACT/ FEMALE/ HUMAN/
HYPOTHYROIDISM, metabolism/ IODINE
ISOTOPES, DIAGNOSTIC/ MALE/ METHODS/
*PROTEIN BINDING/ THYROID CRISIS,
metabolism/ *THYROXINE, analysis

RADIOIMMUNOASSAY

Methodological study of the radioimmunoassay of human thyrotrophin. Gordin A, et al.

Acta Endocrinol (Kbh) 71:24-36, Sep 72

ADULT/ AGE FACTORS/ AGED/
CHROMATOGRAPHY/ ELECTROPHORESIS/
ELECTROPHORESIS, PAPER/ FEMALE/
HUMAN/ IODINE ISOTOPES/ MALE/
METHODS/ MIDDLE AGE/ POLYVINYL/
PREGNANCY/ *RADIOIMMUNOASSAY/
TEMPERATURE/ *THYROTROPIN, blood

Solid-phase radioimmunoassay of ovine prolactin in antibody-coated tubes. Prolactin secretion during estradiol treatment, at parturition, and during milking. Fell LR, et al.

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ANIMAL EXPERIMENTS/ ANTIBODIES/
CROSS REACTIONS/ *ESTRADIOL,
pharmacodynamics/ FEMALE/ HORSES,
immunology/ IODINE ISOTOPES/ *LABOR/
*LACTATION/ LH, blood/ METHODS/
*PROLACTIN, blood/ PROTEIN BINDING/
RABBITS, immunology/
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SOMATOTROPIN, blood/ TURKEYS,
immunology

Immunologic basis for within and between species cross reactivity of luteinizing hormone. Vaitukaitis JL, et al. *Endocrinology* 91:1337-42, Nov 72

ANIMAL EXPERIMENTS/ CATTLE/
COUNTERCURRENT DISTRIBUTION/ *CROSS
REACTIONS/ FSH, blood/ GONADOTROPINS,
CHORIONIC, blood/ HUMAN/ IMMUNE
SERUMS/ IODINE ISOTOPES/ *LH, blood/
METHODS/ RABBITS, immunology/
RADIOIMMUNOASSAY/ RATS/ SHEEP/
*SPECIES SPECIFICITY

A rapid solid-phase radioimmunoassay for the measurement of serum luteinizing hormone-human chorionic gonadotropin (LH-HCG) activity in very early pregnancy. Goldstein DP, et al.

Fertil Steril 23:817-22, Nov 72

ABORTION, MISSED, blood/ ADULT/
CLOMIPHENE, therapeutic use/ FEMALE/
GESTATIONAL AGE/ *GONADOTROPINS,
CHORIONIC, blood/ HUMAN/ *LH, blood/

METHOD SECTION

MENOTROPINS, therapeutic use/ METHODS/
NIDATION/ OVULATION/ *PREGNANCY
TESTS/ *RADIOIMMUNOASSAY/ STERILITY,
FEMALE, drug therapy

Human thyrotrophin radioimmunoassay: technical
problems and clinical application.

Lemarchand-Béraud T.

Horm Metab Res 3:Suppl 3:57-61, 1971

ANTIGEN-ANTIBODY REACTIONS/ CATTLE/
FEMALE/ HUMAN/ IMMUNE SERUMS/
INFANT, NEWBORN/ METHODS/
PREGNANCY/ *RADIOIMMUNOASSAY/
SPECIES SPECIFICITY/ *THYROTROPIN,
analysis/ THYROTROPIN, blood/
THYROXINE-BINDING PROTEIN

Corrections for protein interference in rat growth
hormone immunoassay. Nadeau A, et al.

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ANIMAL EXPERIMENTS/ CHARCOAL/
METHODS/ *PROTEIN BINDING/
*RADIOIMMUNOASSAY/ RATS/
*SOMATOTROPIN, analysis

Radioimmunoassay of insulin: comparison of different
separation techniques. Raptis S.

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ANTIGEN-ANTIBODY COMPLEX/ HUMAN/
IMMUNE SERUMS/ INSULIN, analysis/
*INSULIN, isolation & purification/ INSULIN
ANTIBODIES/ IODINE ISOTOPES/ ION
EXCHANGE RESINS/ METHODS/
*RADIOIMMUNOASSAY

A pregnenolone radioimmunoassay utilizing a new
fractionation technique for sheep antiserum. DiPietro
DL, et al. J Clin Endocrinol Metab 35:729-35, Nov 72

ANTIBODIES, analysis/ CHROMATOGRAPHY,
ION EXCHANGE/ CHROMATOGRAPHY, THIN
LAYER/ FEMALE/ HUMAN/ *IMMUNE
SERUMS/ MALE/ METHODS/
*PREGNENOLONE, blood/ PREGNENOLONE,
metabolism/ PROTEIN BINDING/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE, metabolism/ SHEEP, immunology/
TRITIUM

Regulation of human gonadotropins. 8. Suppression of
serum LH and FSH in adult males following
exogenous testosterone administration. Lee PA, et al.

J Clin Endocrinol Metab 35:636-41, Nov 72

ADULT/ CATTLE, immunology/ DEPRESSION,
CHEMICAL/ *FSH, blood/ HUMAN/
INJECTIONS, INTRAMUSCULAR/ IODINE
ISOTOPES/ *LH, blood/ MALE/ METHODS/
RADIOIMMUNOASSAY/ SEX FACTORS/
TESTOSTERONE, administration & dosage/
TESTOSTERONE, blood/ *TESTOSTERONE,
pharmacodynamics/ TRITIUM

Overnight patterns of serum luteinizing hormone in
normal men. Nankin HR, et al.

J Clin Endocrinol Metab 35:705-10, Nov 72

ADULT/ *CIRCADIAN RHYTHM/ HUMAN/
IMMUNE SERUMS/ IODINE ISOTOPES/ *LH,
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KIDNEY, cytology/ KIDNEY, enzymology/
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ERYTHROCYTES, analysis/ FEMALE/
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CYTOPLASM, metabolism/ EPIDIDYMIS,
cytology/ *EPIDIDYMIS, metabolism/ GEL
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metabolism/ MALE/ METHYLTESTOSTERONE,
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therapeutic use/ MICE/ PERITONEUM,
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HERMAPHRODITISM, familial & genetic/
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HUMAN/ HYPOGONADISM, diagnosis/
*HYPOGONADISM, metabolism/
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4035. Sick-sinus syndrome. Lancet 2:808, 14 Oct 72

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4037. Oral contraceptives and cancer. Lancet 2:911, 28 Oct 72

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4038. Unruly guts. Lancet 2:960-1, 4 Nov 72

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4040. Iodide-induced thyrotoxicosis.

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4044. Growth hormone and short stature.

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4051. Lactoferrin--a bacteriostatic protein in human milk

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4054. Neutron dosimetry in humans.

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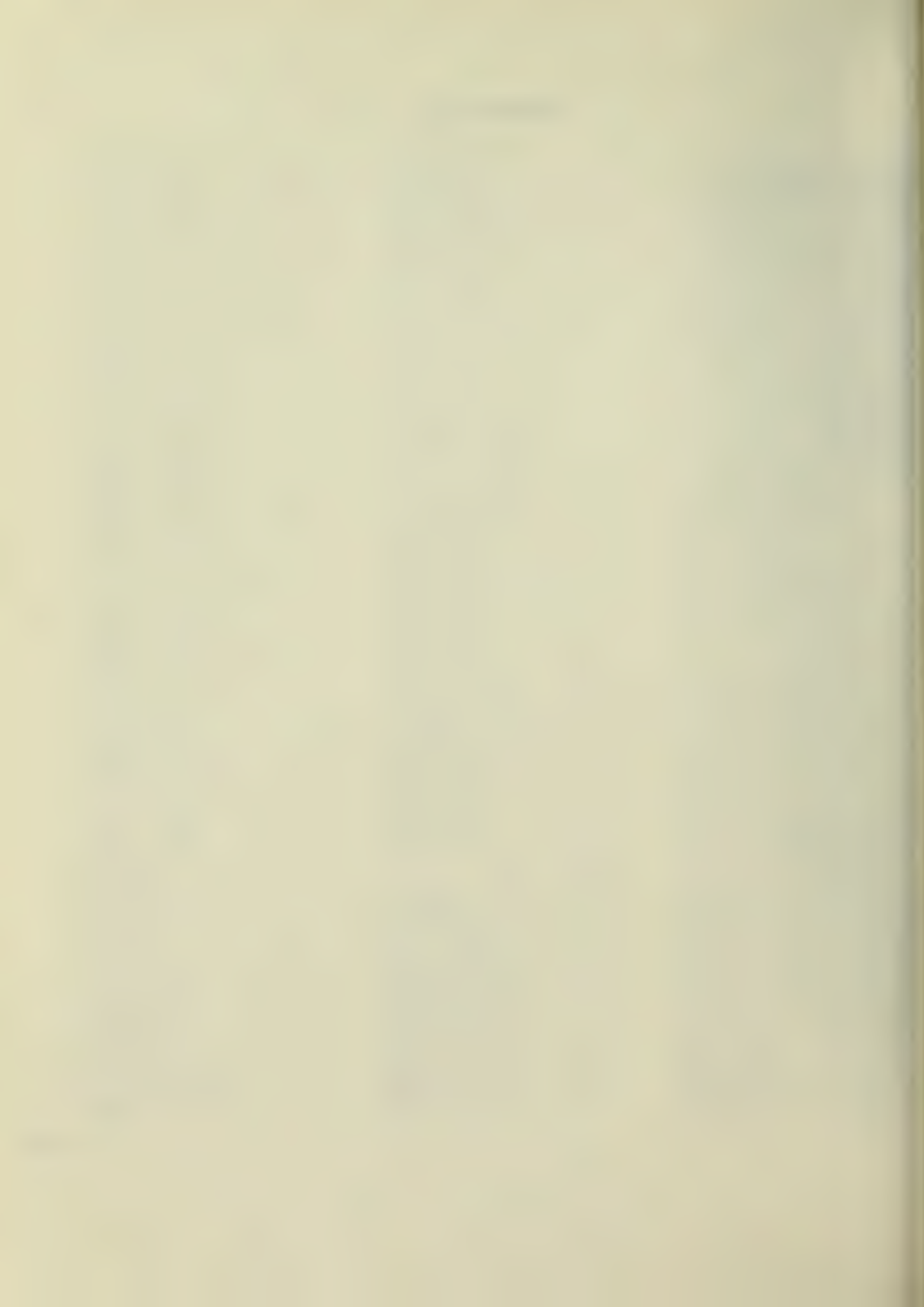
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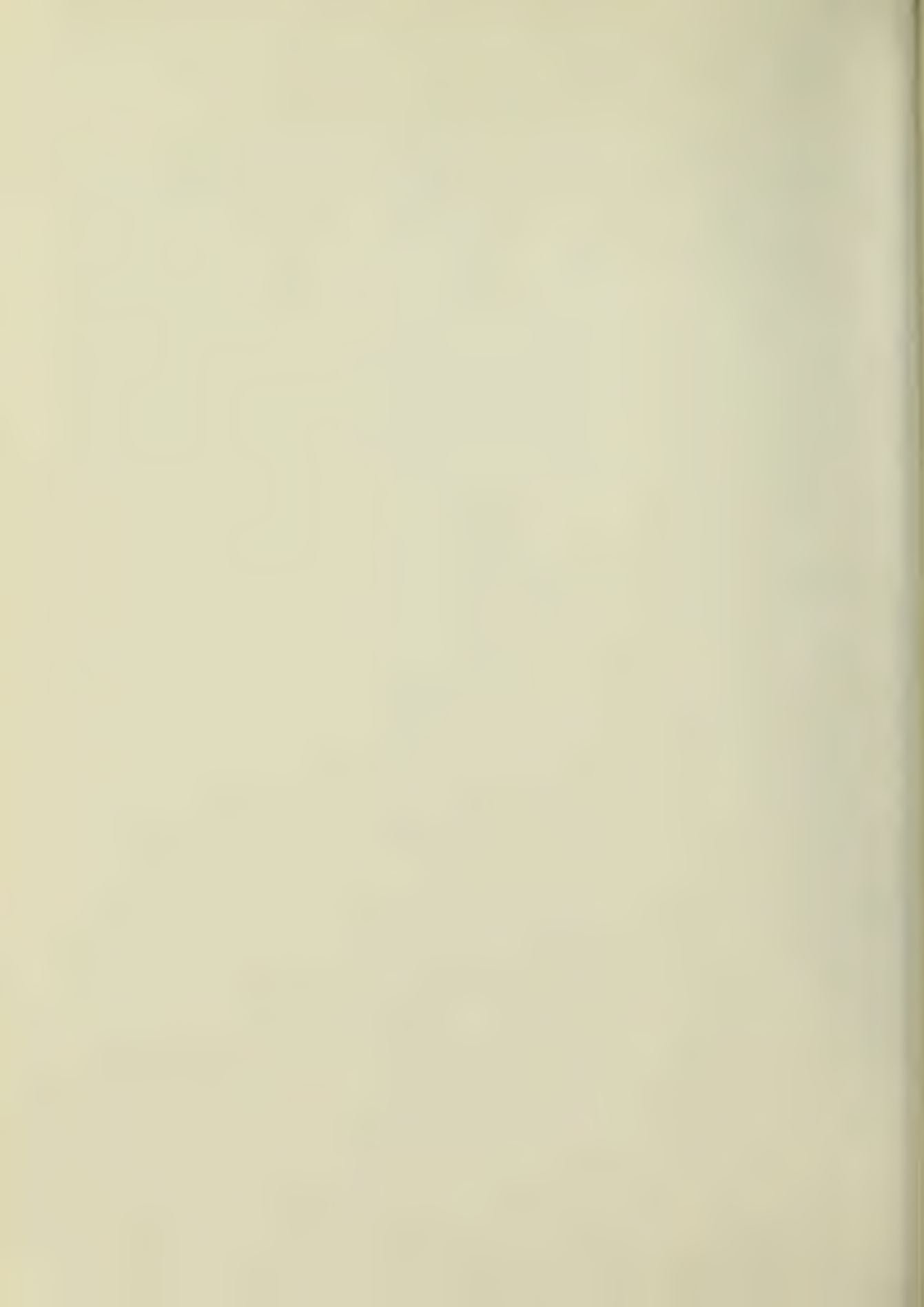
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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are

numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1975.

ENDOCRINOLOGY INDEX

**National Institute of Arthritis,
Metabolism, and Digestive Diseases**

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

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THYROID

III. Thyroid Hormones, Precursors, Metabolites and Synthetic Analogs

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Studies on mono- and diiodohistidine. II. Congenital goitrous hypothyroidism with thyroglobulin defect and iodohistidine-rich iodoalbumin production. Savole JC, et al. *J Clin Invest* 52:116-25, Jan 73

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- Hydrolysis of corticosteroid 17,21-alkylorthoesters in buffered medium. An improved synthesis of 17-monoesters. Vitall R, et al. *Farmaco [Sci]* 27:818-28, Oct 72

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- Corticosteroids in liver disease: studies on the biological conversion of prednisone to prednisolone and plasma protein binding. Powell LW, et al. *Gut* 13:690-6, Sep 72
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- Hydrolysis of corticosteroid 17,21-alkylorthoesters in buffered medium. An improved synthesis of 17-monoesters. Vitall R, et al. *Farmaco [Sci]* 27:818-28, Oct 72

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MESTRANOL

[Search for new ways with low dose contraceptive agents. I] Tóth F, et al.
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- [Metanabol ointment in treatment of experimental eye burns in rabbits] Maciejewski Z, et al.
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- [Thrombelastography and oral contraceptives] Delacrétaiz-Dubugnon F.
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- The effect of alteration of thyroxine binding capacity on the dialyzable and absolute fractions of triiodothyronine in circulation. Dussault JH, et al. Acta Endocrinol (Kbh) 72:265-71, Feb 73

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- Effects of continuous daily administration of 0.1 mg of norethindrone on the plasma levels of progesterone and on the urinary excretion of luteinizing hormone and total oestrogens. Larsson-Cohn U, et al. Acta Endocrinol (Kbh) 71:551-6, Nov 72
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- Amenorrhoea following oral contraception. Starup J. Acta Obstet Gynecol Scand 51:341-5, 1972
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NORETHYNODREL

[Search for new ways with low dose contraceptive agents. I] Tóth F, et al.
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ADMINISTRATION & DOSAGE

Effect of some oral contraceptive steroids on the development of endometrial squamous metaplasia and cysts in rats. Liu FT, et al.
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11. Disorders of the Placenta

CHORIOADENOMA

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DIAGNOSIS

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New follow-up of hydatidiform mole.

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COMPLICATIONS

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Scott JR. *Am J Obstet Gynecol* 113:329-34, 1 Jun 72

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URINE

Follow-up of hydatidiform mole by radioimmunoassay of human chorionic gonadotrophin. Crawford JW. *Br Med J* 4:715-9, 23 Dec 72
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COMPLICATIONS

Placental insufficiency and the small-for-dates baby.
Scott JM, et al.
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- [Amniography as a method of placental location] Piña de la Peza JG, et al.
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THERAPY

- Prolonged pregnancy a problem of declining placental function. Burd LI, et al.
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TROPHOBLASTIC TUMOR

DIAGNOSIS

- Follow-up of hydatidiform mole by radioimmunoassay of human chorionic gonadotrophin. Crawford JW.
Br Med J 4:715-9, 23 Dec 72

IMMUNOLOGY

- [Metastatic trophoblastic tumor; a patient studied by means of the immunochemical LH test (luteonosticon test)] Veen WA van, et al.
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PLACENTA

111. Placental Hormones, Precursors, Metabolites and Synthetic Analogs

GONADOTROPINS, CHORIONIC

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111. Parathyroid Hormone

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[Effect of hydrocortisone on the amount of Gomori-positive substances in the zona externa infundibuli of bilaterally adrenalectomized rats] Bach JH, et al.
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RADIOIMMUNOASSAY

[Standardization of the radiobiological method for
determination of long-acting thyroid stimulator
(LATS) in human serum] Muramoto E, et al.

Rev Assoc Med Bras 18:379-88, Oct 72 (Eng. Abstr.)
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ANIMAL EXPERIMENTS/ *BIOLOGICAL
ASSAY/ ENGLISH ABSTRACT/ FEMALE/
*GOITER, EXOPHTHALMIC, blood/ HUMAN/
*LONG-ACTING THYROID STIMULATOR,
blood/ MALE/ METHODS/ MICE

BODY WEIGHT

The stimulatory effect on insulin secretion in
long-term tolbutamide treatment. Immunological

determinations of urinary- and serum insulin.
Johansen K, et al.

Acta Endocrinol (Kbh) 71:709-15, Dec 72

AGED/ BLOOD SUGAR, metabolism/ BODY
WEIGHT/ CIRCADIAN RHYTHM/
CREATININE, blood/ DIABETES MELLITUS,
drug therapy/ *DIABETES MELLITUS, urine/
DIABETIC DIET/ HUMAN/ INSULIN, blood/
*INSULIN, secretion/ INSULIN, urine/
METHODS/ MIDDLE AGE/ STIMULATION,
CHEMICAL/ TIME FACTORS/
*TOLBUTAMIDE, therapeutic use

Cardiac noradrenaline turnover and urinary
catecholamine excretion in trained and untrained rats
during rest and exercise. Ostman I, et al.

Acta Physiol Scand 86:299-308, Nov 72

ADRENAL GLANDS, metabolism/ ANIMAL
EXPERIMENTS/ BODY WEIGHT/
EPINEPHRINE, metabolism/ EPINEPHRINE,
urine/ *EXERTION/ FLUOROMETRY/ HEART,
anatomy & histology/ MALE/ METHODS/
*MYOCARDIUM, metabolism/
NOREPINEPHRINE, analysis/
*NOREPINEPHRINE, metabolism/
NOREPINEPHRINE, urine/ ORGAN WEIGHT/
RATS/ TIME FACTORS/ TRITIUM

Renal weight and content of lipids and phospholipid
renin "preinhibitor" in rats with renal hypertension.

Osmond DH. J Lab Clin Med 80:755-64, Dec 72

ANIMAL EXPERIMENTS/ BLOOD PRESSURE/
BODY WEIGHT/ CEPHALINS, analysis/
CHROMATOGRAPHY/ FEMALE/
*HYPERTENSION, RENAL/ KIDNEY, analysis/
*KIDNEY, pathology/ *LIPIDS, analysis/
METHODS/ ORGAN WEIGHT/
*PHOSPHOLIPIDS, analysis/ PHOSPHOLIPIDS,
antagonists & inhibitors/ PHOSPHORUS
ISOTOPES/ RATS/ *RENIN, analysis/ RENIN,
antagonists & inhibitors

[Cortisol and corticosterone secretion by adrenal
glands transplanted to the neck in dogs] Barac G, et al.

C R Soc Biol (Paris) 166:206-8, 1972 (Fre)

ADRENAL GLANDS, drug effects/ *ADRENAL
GLANDS, secretion/ ADRENAL GLANDS,
transplantation/ ANIMAL EXPERIMENTS/
BODY WEIGHT/ CAROTID ARTERIES/
*CORTICOSTERONE, secretion/
CORTICOTROPIN, pharmacodynamics/
DEXAMETHASONE, pharmacodynamics/ DOGS/
FEMALE/ *HYDROCORTISONE, secretion/
JUGULAR VEIN/ MALE/ METHODS/
PARABIOSIS/ REGIONAL BLOOD FLOW/
TRANSPLANTATION, HOMOLOGOUS

[Measurement of early insulin response in glucose
loading] Nosselin B, et al.

Lakartidningen 69:5225-8, 1 Nov 72 (Eng. Abstr.)
(Swe)

ADULT/ BODY HEIGHT/ BODY WEIGHT/
ENGLISH ABSTRACT/ GLUCOSE
TOLERANCE TEST/ HUMAN/ *INSULIN,
blood/ METHODS/ PANCREAS, metabolism/
*PREDIABETIC STATE, diagnosis/ TIME
FACTORS

CENTRIFUGATION

Radioimmunoassay of oestrone and oestradiol in human
and bovine peripheral plasma. Edqvist LE, et al.

Acta Endocrinol (Kbh) 71:716-30, Dec 72

ADULT/ ANIMAL EXPERIMENTS/
ANTIBODIES/ ANTIGEN-ANTIBODY
REACTIONS/ CASTRATION/ CATTLE/
CENTRIFUGATION/ CHROMATOGRAPHY/
CRYSTALLIZATION/ *ESTRADIOL, blood/
*ESTRONE, blood/ EVALUATION STUDIES/
FEMALE/ HUMAN/ IMMUNE SERUMS/
INDICATORS AND REAGENTS/
MENSTRUATION/ METHODS/ PREGNANCY/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ TIME FACTORS

METHOD SECTION

CENTRIFUGATION, DENSITY GRADIENT

Estrogen receptors in human breast cancer. McGuire WL. *J Clin Invest* 52:73-7, Jan 73
 BINDING SITES/ *BREAST NEOPLASMS, physiopathology/ CENTRIFUGATION, DENSITY GRADIENT/ CHARCOAL/ CYTOPLASM, metabolism/ CYTOSOL, analysis/ DEXTRAN/ ESTRADIOL, analysis/ *ESTROGENS, metabolism/ FEMALE/ HUMAN/ LYMPH NODES, analysis/ METHODS/ NEOPLASM METASTASIS/ PROTEIN BINDING/ *RECEPTORS, HORMONE/ SUCROSE/ TIME FACTORS/ TRITIUM

CHEMISTRY

Immunochemical detection of prostaglandins with prostaglandin-coated bacteriophage T 4 and by radioimmunoassay. Dray F, et al.
Anal Biochem 50:399-408, Dec 72
 CATTLE/ CHEMISTRY/ *COLIPHAGES/ FEMALE/ GOATS, immunology/ IMINES/ IMMUNOASSAY/ METHODS/ METHYLAMINES/ *PROSTAGLANDINS, analysis/ RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ TRITIUM

Syntheses and LH- and FSH-RH activities of LH-RH analogs substituted at position 8. Yanaihara N, et al.
Biochem Biophys Res Commun 49:1280-91, 4 Dec 72
 ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CHEMISTRY/ CHROMATOGRAPHY, DEAE-CELLULOSE/ FEMALE/ FSH, secretion/ GLYCINE/ LEUCINE/ LH, analysis/ LH, secretion/ METHODS/ OVARY, physiology/ *PITUITARY HORMONE RELEASING FACTORS/ PITUITARY HORMONE RELEASING FACTORS, analysis/ PITUITARY HORMONE RELEASING FACTORS, chem synthesis/ PITUITARY HORMONE RELEASING FACTORS, isolation & purification/ PITUITARY HORMONE RELEASING FACTORS, pharmacodynamics/ PROLINE/ RADIOIMMUNOASSAY/ RATS/ STRUCTURE-ACTIVITY RELATIONSHIP/ SWINE

Evaluation of "Dexsil 300 GC" as stationary phase in gas chromatography of triiodothyronine and thyroxine in human serum. Tajuddin M, et al.
Clin Chem 19:109-12, Jan 73
 BLOOD PROTEINS/ CHEMISTRY/ *CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ DRUG STABILITY/ ESTERS/ EVALUATION STUDIES/ HEAT/ HUMAN/ IODINE ISOTOPES, DIAGNOSTIC/ METHODS/ PROPIONATES/ PROTEIN BINDING/ SILICON/ THYROID DISEASES, diagnosis/ THYROID GLAND FUNCTION TESTS/ *THYROXINE, blood/ *TRIIODOTHYRONINE, blood

[Methods of iodine determination in water. Comparative studies] Kelus J.
Rocz Panstw Zaki Hig 23:477-86, 1972 (Eng. Abstr.) (Pol)

CHEMISTRY/ CHLORINE, analysis/ COLORIMETRY/ COMPARATIVE STUDY/ ENGLISH ABSTRACT/ HYDROGEN-ION CONCENTRATION/ *IODINE, analysis/ METHODS/ *WATER, analysis/ WATER POLLUTION, CHEMICAL, analysis

CHROMATOGRAPHY

Peripheral plasma levels of oestrogens, progesterone and 17-hydroxyprogesterone during the menstrual cycle of the rhesus monkey. Bosu WT, et al.
Acta Endocrinol (Kbh) 71:755-64, Dec 72
 ANIMAL EXPERIMENTS/ BINDING, COMPETITIVE/ CHROMATOGRAPHY/ DIET/ ESTRADIOL, blood/ *ESTROGENS, blood/ ESTRONE, blood/ ESTRUS/ FEMALE/ GEL FILTRATION/ HEMATOCRIT/ *HYDROXYPROGESTERONE, blood/ MACACA/ METHODS/ MONKEYS/ *PROGESTERONE,

blood/ RADIOIMMUNOASSAY/ TIME FACTORS

Radioimmunoassay of oestrone and oestradiol in human and bovine peripheral plasma. Edqvist LE, et al.
Acta Endocrinol (Kbh) 71:716-30, Dec 72
 ADULT/ ANIMAL EXPERIMENTS/ ANTIBODIES/ ANTIGEN-ANTIBODY REACTIONS/ CASTRATION/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ CRYSTALLIZATION/ *ESTRADIOL, blood/ *ESTRONE, blood/ EVALUATION STUDIES/ FEMALE/ HUMAN/ IMMUNE SERUMS/ INDICATORS AND REAGENTS/ MENSTRUATION/ METHODS/ PREGNANCY/ RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ TIME FACTORS

Peripheral plasma levels of 17-hydroxyprogesterone during human pregnancy. Holmdahl TH, et al.
Acta Endocrinol (Kbh) 71:765-72, Dec 72
 ADULT/ CHROMATOGRAPHY/ CORTICOSTERONE/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROXYPROGESTERONE, blood/ METHODS/ PREGNANCY/ *PREGNANCY/ *PROGESTERONE, blood/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ TIME FACTORS/ TRITIUM

Peripheral plasma levels of 17-hydroxyprogesterone, progesterone and oestradiol during normal menstrual cycles in women. Holmdahl TH, et al.
Acta Endocrinol (Kbh) 71:743-54, Dec 72
 ADULT/ BINDING, COMPETITIVE/ CHROMATOGRAPHY/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROXYPROGESTERONE, blood/ IMMUNE SERUMS/ MENOPAUSE/ METHODS/ OVULATION/ *PROGESTERONE, blood/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ TIME FACTORS/ TRANSCORTIN

Immunological measurements of urinary insulin for the evaluation of insulin production. Orskov H, et al.
Acta Endocrinol (Kbh) 71:697-708, Dec 72
 ALBUMINS, diagnostic use/ BINDING SITES/ BLOOD SUGAR, analysis/ BUFFERS/ CHROMATOGRAPHY/ DIALYSIS/ FILTRATION/ GLUCOSE TOLERANCE TEST/ HUMAN/ IMMUNOASSAY/ INSULIN, blood/ *INSULIN, urine/ INSULIN ANTIBODIES/ IODINE ISOTOPES/ METHODS/ TEMPERATURE/ TIME FACTORS

The source of circulating progesterone and 17-hydroxyprogesterone in hydatidiform mole. Teoh ES, et al. *Acta Endocrinol (Kbh)* 71:773-80, Dec 72
 ADULT/ CHROMATOGRAPHY/ FEMALE/ GONADOTROPINS, CHORIONIC, blood/ HUMAN/ *HYDATIDIFORM MOLE, metabolism/ *HYDROXYPROGESTERONE, metabolism/ METHODS/ OVARIAN CYSTS, metabolism/ PREGNANCY/ PROGESTERONE, blood/ *PROGESTERONE, metabolism/ PROTEIN BINDING/ THECA CELL TUMOR, metabolism/ TIME FACTORS/ TROPHOBLAST, metabolism

Fractionation and assay of chicken pituitary hormones. Scanes CG, et al. *Br Poult Sci* 13:603-10, Nov 72
 ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ *CHICKENS, metabolism/ CHROMATOGRAPHY/ CHROMATOGRAPHY, DEAE-CELLULOSE/ FEMALE/ FSH, isolation & purification/ FSH, pharmacodynamics/ GLYCOPROTEINS, isolation & purification/ LH, isolation & purification/ LH, pharmacodynamics/ MALE/ METHODS/ *PITUITARY HORMONES, isolation & purification/ TESTIS, drug effects/ THYROID GLAND, drug effects/ THYROTROPIN, isolation & purification/ THYROTROPIN, pharmacodynamics

Criteria for affinity chromatography of steroid-binding macromolecules. Ludens JH, et al.
J Biol Chem 247:7533-8, 10 Dec 72
 *ALDOSTERONE, isolation & purification/

METHOD SECTION

AMINES/ ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ BINDING SITES/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
AFFINITY/ CYTOSOL/ CYTOSOL, analysis/
*DESOXYCORTICOSTERONE/ *ESTRADIOL,
isolation & purification/ *ESTRIOL/
EVALUATION STUDIES/ KIDNEY, analysis/
MACROMOLECULAR SYSTEMS/ MALE/
METHODS/ POLYSACCHARIDES/ POTASSIUM
CHLORIDE/ PROTEIN BINDING/ RATS/
SOLUBILITY/ STRUCTURE-ACTIVITY
RELATIONSHIP/ SULFHYDRYL COMPOUNDS/
TRITIUM

Metabolic clearance of progesterone in the menstrual cycle. Lin TJ, et al.

J Clin Endocrinol Metab 35:879-86, Dec 72
ADULT/ CARBON ISOTOPES/
CHROMATOGRAPHY/ FEMALE/ HUMAN/
*MENSTRUATION/ METABOLIC CLEARANCE
RATE/ METHODS/ PROGESTERONE, blood/
*PROGESTERONE, metabolism/ TRITIUM

Androstenediol levels in human peripheral plasma. Rosenfield RL, et al.

J Clin Endocrinol Metab 35:818-22, Dec 72
ACETYLATION/ ADULT/ *ANDROSTANES,
blood/ BINDING, COMPETITIVE/ CARBON
ISOTOPES/ CHROMATOGRAPHY/
CHROMATOGRAPHY, PAPER/
CRYSTALLIZATION/ FEMALE/ GAMMA
GLOBULIN/ HUMAN/ MALE/ METHODS/
SEX FACTORS/ TRITIUM

Investigation of a radioimmunoassay for plasma estrone and estradiol-17beta in males and nonpregnant females. Comparison with an independent method using fluorimetry. Wright K, et al.

J Clin Endocrinol Metab 36:165-73, Jan 73
CHROMATOGRAPHY/ COMPARATIVE
STUDY/ CROSS REACTIONS/ *ESTRADIOL,
blood/ *ESTRONE, blood/ FEMALE/
FLUOROMETRY/ HUMAN/ IMMUNE
SERUMS/ MALE/ METHODS/
*RADIOIMMUNOASSAY/ SHEEP, immunology/
TRITIUM

Development of a radioimmunoassay for canine luteinizing hormone. Boyns AR, et al.

J Endocrinol 55:279-91, Nov 72
ANIMAL EXPERIMENTS/ ANTIBODIES/
CASTRATION/ CATS/ CHROMATOGRAPHY/
*DOGS/ ELECTROPHORESIS/ ESTROGENS/
ESTRUS/ FEMALE/ HUMAN/ IMMUNE
SERUMS/ IODINE ISOTOPES/ *LH, blood/
MALE/ METHODS/ *RADIOIMMUNOASSAY/
RATS/ SHEEP

Renal weight and content of lipids and phospholipid renin "preinhibitor" in rats with renal hypertension. Osmond DH. J Lab Clin Med 80:755-64, Dec 72

ANIMAL EXPERIMENTS/ BLOOD PRESSURE/
BODY WEIGHT/ CEPHALINS, analysis/
CHROMATOGRAPHY/ FEMALE/
*HYPERTENSION, RENAL/ KIDNEY, analysis/
*KIDNEY, pathology/ *LIPIDS, analysis/
METHODS/ ORGAN WEIGHT/
*PHOSPHOLIPIDS, analysis/ PHOSPHOLIPIDS,
antagonists & inhibitors/ PHOSPHORUS
ISOTOPES/ RATS/ *RENIN, analysis/ RENIN,
antagonists & inhibitors

[Studies on extraction, separation and estimation of prostaglandins by radioimmunoassay] Inagawa T, et al.

J Pharm Soc Jap 92:1187-94, Oct 72 (Eng. Abstr.) (Jap)
ADULT/ CHROMATOGRAPHY/ ENGLISH
ABSTRACT/ FEMALE/ HUMAN/ MALE/
METHODS/ PROSTAGLANDINS, analysis/
PROSTAGLANDINS, blood/
*PROSTAGLANDINS, isolation & purification/
RABBITS/ *RADIOIMMUNOASSAY/ TRITIUM

CHROMATOGRAPHY, AFFINITY

Criteria for affinity chromatography of steroid-binding macromolecules. Ludens JH, et al.

J Biol Chem 247:7533-8, 10 Dec 72
*ALDOSTERONE, isolation & purification/
AMINES/ ANIMAL EXPERIMENTS/ BINDING,

COMPETITIVE/ BINDING SITES/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
AFFINITY/ CYTOSOL/ CYTOSOL, analysis/
*DESOXYCORTICOSTERONE/ *ESTRADIOL,
isolation & purification/ *ESTRIOL/
EVALUATION STUDIES/ KIDNEY, analysis/
MACROMOLECULAR SYSTEMS/ MALE/
METHODS/ POLYSACCHARIDES/ POTASSIUM
CHLORIDE/ PROTEIN BINDING/ RATS/
SOLUBILITY/ STRUCTURE-ACTIVITY
RELATIONSHIP/ SULFHYDRYL COMPOUNDS/
TRITIUM

CHROMATOGRAPHY,

DEAE-CELLULOSE

Syntheses and LH- and FSH-RH activities of LH-RH analogs substituted at position 8. Yanaihara N, et al. Biochem Biophys Res Commun 49:1280-91, 4 Dec 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CHEMISTRY/ CHROMATOGRAPHY,
DEAE-CELLULOSE/ FEMALE/ FSH, secretion/
GLYCINE/ LEUCINE/ LH, analysis/ LH,
secretion/ METHODS/ OVARY, physiology/
*PITUITARY HORMONE RELEASING
FACTORS/ PITUITARY HORMONE
RELEASING FACTORS, analysis/ PITUITARY
HORMONE RELEASING FACTORS, chem
synthesis/ PITUITARY HORMONE
RELEASING FACTORS, isolation &
purification/ PITUITARY HORMONE
RELEASING FACTORS, pharmacodynamics/
PROLINE/ RADIOIMMUNOASSAY/ RATS/
STRUCTURE-ACTIVITY RELATIONSHIP/
SWINE

Fractionation and assay of chicken pituitary hormones. Scanes CG, et al. Br Poult Sci 13:603-10, Nov 72

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ *CHICKENS, metabolism/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
DEAE-CELLULOSE/ FEMALE/ FSH, isolation
& purification/ FSH, pharmacodynamics/
GLYCOPROTEINS, isolation & purification/
LH, isolation & purification/ LH,
pharmacodynamics/ MALE/ METHODS/
*PITUITARY HORMONES, isolation &
purification/ TESTIS, drug effects/ THYROID
GLAND, drug effects/ THYROTROPIN,
isolation & purification/ THYROTROPIN,
pharmacodynamics

CHROMATOGRAPHY, GAS

A method for the group analysis of steroids in milk. Darling JA, et al.

Acta Endocrinol (Kbh) 72:391-400, Feb 73
ANDROSTANES, analysis/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
HYDROCORTISONE, analysis/ HYDROLYSIS/
17-HYDROXYCORTICOSTEROIDS, analysis/
METHODS/ *MILK, analysis/ PREGNANEDIOL,
analysis/ PREGNENES, analysis/
PROGESTERONE, analysis/ *STERIODS,
analysis

Sex- and age-dependent hydroxylations of testosterone in the liver of normally developed rats and in animals with disturbed sexual development. Ghraf R, et al. Acta Endocrinol (Kbh) 71:781-91, Dec 72

AGE FACTORS/ ANDROSTENES, metabolism/
ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
CULTURE MEDIA/ ENVIRONMENT,
CONTROLLED/ ESTRADIOL,
pharmacodynamics/ FEMALE/ FEMINIZATION,
metabolism/ HYDROXYLATION/ IN VITRO/
MALE/ METHODS/ *MICROSOMES, LIVER,
metabolism/ RATS, INBRED STRAINS/
SEX DIFFERENTIATION DISORDERS,
metabolism/ SEX FACTORS/ STEROID
HYDROXYLASES, analysis/ TESTOSTERONE,
analysis/ *TESTOSTERONE, metabolism

Determination of catechol-containing compounds in tissue samples by gas-liquid chromatography. Arnold

METHOD SECTION

EL, et al. *Anal Chem* 45:85-9, Jan 73

ANIMAL EXPERIMENTS/ *BRAIN
CHEMISTRY/ CATECHOL, analysis/
*CATECHOLAMINES, analysis/
*CHROMATOGRAPHY, GAS/ DOPA, analysis/
DOPAMINE, analysis/ METHODS/ MONKEYS/
NOREPINEPHRINE, analysis/
PHENYLACETATES, analysis

Evaluation of "Dexsil 300 GC" as stationary phase in gas chromatography of triiodothyronine and thyroxine in human serum. Tajuddin M, et al.

Clin Chem 19:109-12, Jan 73

BLOOD PROTEINS/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
COMPARATIVE STUDY/ DRUG STABILITY/
ESTERS/ EVALUATION STUDIES/ HEAT/
HUMAN/ IODINE ISOTOPES, DIAGNOSTIC/
METHODS/ PROPIONATES/ PROTEIN
BINDING/ SILICON/ THYROID DISEASES,
diagnosis/ THYROID GLAND FUNCTION
TESTS/ *THYROXINE, blood/
*TRIIODOTHYRONINE, blood

Excretion of steroid hormones in adults. Steroids in urine from adults. Eriksson H, et al.

Clin Chim Acta 41:79-90, Oct 72

ADULT/ *ANDROSTANES, urine/
ANDROSTENES, urine/ ANDROSTERONE,
urine/ CARBON ISOTOPES/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
DEHYDROEPIANDROSTERONE, urine/
ETIOCHOLANOLONE, urine/ FEMALE/ GEL
FILTRATION/ GLUCURONATES, urine/
HUMAN/ HYDROXYSTEROIDS, urine/
17-KETOSTEROIDS, urine/ KETOSTEROIDS,
urine/ MALE/ MASS SPECTRUM ANALYSIS/
METHODS/ *PREGNANES, urine/
PREGNENES, urine/ SEX FACTORS/
SULFURIC ACIDS, urine/ TRITIUM

Gas-liquid chromatographic measurement of oestriol, oestrone and oestradiol-17 beta in the plasma of pregnant women. A method and its application in the second half of normal and pathological pregnancies. Fischer-Rasmussen W.

Dan Med Bull 19:Suppl 2:1-58, Sep 72

ADOLESCENCE/ ADULT/ ASPHYXIA
NEONATORUM/ BIRTH WEIGHT/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
DELIVERY/ *ESTRADIOL, blood/ *ESTRIOL,
blood/ *ESTRONE, blood/ FEMALE/ FETAL
DEATH/ FETUS/ GESTATIONAL AGE/
HUMAN/ INFANT, NEWBORN/ MALE/
METHODS/ *PREGNANCY/ PREGNANCY
COMPLICATIONS, blood/ PREGNANCY,
PROLONGED/ TIME FACTORS

[Analytical measurement of urinary neutral steroids by gas-liquid-chromatography] Takahara J, et al.

Jap J Clin Pathol 20:373-80, Jun 72 (Jap)

ADOLESCENCE/ ADRENAL CORTEX
HORMONES, urine/ ADULT/
ANDROSTERONE, urine/
*CHROMATOGRAPHY, GAS/
ETIOCHOLANOLONE, urine/ FEMALE/
*GLUCOCORTICIDS, urine/ HUMAN/
17-KETOSTEROIDS, urine/ MALE/ METHODS/
PREGNANEDIOL, urine

CHROMATOGRAPHY, ION EXCHANGE

Plasma renin activity, plasma renin substrate and urinary aldosterone excretion in the menstrual cycle in relation to the concentration of progesterone and oestrogens in the plasma. Sundsfjord JA, et al.

Acta Endocrinol (Kbh) 71:519-29, Nov 72

ADOLESCENCE/ ADULT/ AGE FACTORS/
*ALDOSTERONE, urine/ ANGIOTENSIN,
blood/ CHROMATOGRAPHY, ION
EXCHANGE/ CORPUS LUTEUM HORMONES,
blood/ ESTRADIOL, blood/ ESTRIOL, urine/
*ESTROGENS, blood/ FEMALE/ HUMAN/
IMMUNE SERUMS/ *MENSTRUATION/
METHODS/ OVULATION/ *PROGESTERONE,

blood/ PROGESTERONE, metabolism/
PROTEIN BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ *RENIN, blood/
SODIUM, urine/ TIME FACTORS/ TRITIUM

Isolation and characterization of renin-like enzymes from mouse submaxillary glands. Cohen S, et al.

Biochemistry 11:4286-93, 7 Nov 72

AMINO ACIDS, analysis/ AMMONIUM
SULFATE/ ANGIOTENSIN, pharmacodynamics/
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ BLOOD PRESSURE, drug effects/
CHROMATOGRAPHY, ION EXCHANGE/
CRYSTALLIZATION/ ELECTROPHORESIS,
DISK/ GEL DIFFUSION TESTS/ GEL
FILTRATION/ GLYCOPROTEINS, analysis/
ISOELECTRIC FOCUSING/ MALE/ METHODS/
MICE/ MOLECULAR WEIGHT/ PEPTIDES/
RABBITS, immunology/ RATS/ RENIN,
analysis/ *RENIN, isolation & purification/
RENIN, pharmacodynamics/
*SUBMANDIBULAR GLAND, enzymology/
ULTRACENTRIFUGATION

Evaluation of "Dexsil 300 GC" as stationary phase in gas chromatography of triiodothyronine and thyroxine in human serum. Tajuddin M, et al.

Clin Chem 19:109-12, Jan 73

BLOOD PROTEINS/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
COMPARATIVE STUDY/ DRUG STABILITY/
ESTERS/ EVALUATION STUDIES/ HEAT/
HUMAN/ IODINE ISOTOPES, DIAGNOSTIC/
METHODS/ PROPIONATES/ PROTEIN
BINDING/ SILICON/ THYROID DISEASES,
diagnosis/ THYROID GLAND FUNCTION
TESTS/ *THYROXINE, blood/
*TRIIODOTHYRONINE, blood

Excretion of steroid hormones in adults. Steroids in urine from adults. Eriksson H, et al.

Clin Chim Acta 41:79-90, Oct 72

ADULT/ *ANDROSTANES, urine/
ANDROSTENES, urine/ ANDROSTERONE,
urine/ CARBON ISOTOPES/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
DEHYDROEPIANDROSTERONE, urine/
ETIOCHOLANOLONE, urine/ FEMALE/ GEL
FILTRATION/ GLUCURONATES, urine/
HUMAN/ HYDROXYSTEROIDS, urine/
17-KETOSTEROIDS, urine/ KETOSTEROIDS,
urine/ MALE/ MASS SPECTRUM ANALYSIS/
METHODS/ *PREGNANES, urine/
PREGNENES, urine/ SEX FACTORS/
SULFURIC ACIDS, urine/ TRITIUM

Measurement of urinary thyroxine. Black E, et al. *Lancet* 1:152-3, 20 Jan 73

ACETATES/ CHROMATOGRAPHY, ION
EXCHANGE/ HUMAN/ METHODS/
RADIOIMMUNOASSAY/ RESINS/
*THYROXINE, urine

Quantitation of transmitter noradrenaline in the pulps of cat canine teeth. Pohio P, et al.

Suom Hammaslaak Toim 68:20-5, 1972

ANIMAL EXPERIMENTS/ BRAIN
CHEMISTRY/ CATS/ CHROMATOGRAPHY,
ION EXCHANGE/ CUSPID/ *DENTAL PULP,
analysis/ DENTAL PULP, physiology/
EPINEPHRINE, analysis/ FEMALE/ MALE/
METHODS/ *NOREPINEPHRINE, analysis/
RATS/ SPECTROPHOTOMETRY/
SYMPATHOMIMETICS, analysis

A method for estimation of renin activity in plasma. Nigawara K, et al.

Tohoku J Exp Med 107:323-36, Aug 72

ALCOHOL, ETHYL/ ALCOHOL, PROPYL/
ALCOHOLS/ ANGIOTENSIN, blood/
ANGIOTENSIN, isolation & purification/
ANGIOTENSINASE, antagonists & inhibitors/
ANGIOTENSINASE, blood/ ANIMAL
EXPERIMENTS/ BIOLOGICAL ASSAY/
CHROMATOGRAPHY, ION EXCHANGE/
EDTA/ HYDROGEN-ION CONCENTRATION/
ISOFLUOROPHATE/ METHODS/ RATS/
*RENIN, blood/ SWINE

METHOD SECTION

CHROMATOGRAPHY, PAPER

Sex- and age-dependent hydroxylations of testosterone in the liver of normally developed rats and in animals with disturbed sexual development. Ghraf R, et al. *Acta Endocrinol (Kbh)* 71:781-91, Dec 72

AGE FACTORS/ ANDROSTENES, metabolism/
ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
CULTURE MEDIA/ ENVIRONMENT,
CONTROLLED/ ESTRADIOL,
pharmacodynamics/ FEMALE/ FEMINIZATION,
metabolism/ HYDROXYLATION/ IN VITRO/
MALE/ METHODS/ *MICROSOMES, LIVER,
metabolism/ RATS/ RATS, INBRED STRAINS/
SEX DIFFERENTIATION DISORDERS,
metabolism/ SEX FACTORS/ STEROID
HYDROXYLASES, analysis/ TESTOSTERONE,
analysis/ *TESTOSTERONE, metabolism

Urinary excretion of tetrahydroaldosterone in normal subjects and in patients with adrenal insufficiency and Conn's syndrome. Nielsen MD, et al.

Acta Endocrinol (Kbh) 71:498-511, Nov 72
ACETYLESTERASE/ ADOLESCENCE/
*ADRENAL GLAND HYPOFUNCTION, urine/
ADULT/ *ALDOSTERONE, urine/ CHILD/
CHILD, PRESCHOOL/ CHROMATOGRAPHY,
PAPER/ DIET, SALT-FREE/ FEMALE/
HUMAN/ *HYPERALDOSTERONISM, urine/
INDICATORS AND REAGENTS/ INFANT/
INFANT, NEWBORN/ MALE/ METHODS/
MIDDLE AGE/ SODIUM/
SPECTROPHOTOMETRY/ STATISTICS/
TETRAZOLIUM SALTS/ TIME FACTORS/
TRITIUM/ URINE, analysis

Studies on the dynamics of plasma androgens and on the origin of dihydrotestosterone in dogs. Tremblay RR, et al. *Endocrinology* 91:556-61, Aug 72

ADRENAL GLANDS, secretion/
ANDROSTANES, blood/ *ANDROSTANES,
metabolism/ ANDROSTANES, secretion/
ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/ DOGS/
17-KETOSTEROIDS, blood/
17-KETOSTEROIDS, metabolism/
17-KETOSTEROIDS, secretion/ MALE/
METABOLIC CLEARANCE RATE/ METHODS/
*STANOLONE, biosynthesis/ TESTIS,
secretion/ TESTOSTERONE, blood/
*TESTOSTERONE, metabolism/
TESTOSTERONE, secretion/ TRITIUM

Androstenediol levels in human peripheral plasma. Rosenfield RL, et al.

J Clin Endocrinol Metab 35:818-22, Dec 72
ACETYLATION/ ADULT/ *ANDROSTANES,
blood/ BINDING, COMPETITIVE/ CARBON
ISOTOPES/ CHROMATOGRAPHY/
CHROMATOGRAPHY, PAPER/
CRYSTALLIZATION/ FEMALE/ GAMMA
GLOBULIN/ HUMAN/ MALE/ METHODS/
SEX FACTORS/ TRITIUM

CHROMATOGRAPHY, THIN LAYER

A method for the group analysis of steroids in milk. Darling JA, et al.

Acta Endocrinol (Kbh) 72:391-400, Feb 73
ANDROSTANES, analysis/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
HYDROCORTISONE, analysis/ HYDROLYSIS/
17-HYDROXYCORTICOSTEROIDS, analysis/
METHODS/ *MILK, analysis/ PREGNANEDIOL,
analysis/ PREGNENES, analysis/
PROGESTERONE, analysis/ *STEROIDS,
analysis

Hapten-radioimmunoassay of plasma oestradiol. Doerr P. *Acta Endocrinol (Kbh)* 72:330-44, Feb 73

ANIMAL EXPERIMENTS/
CHROMATOGRAPHY, THIN LAYER/
*ESTRADIOL, blood/ *HAPTENS/ IMMUNE
SERUMS/ IMMUNIZATION/ MALE/

METHODS/ RABBITS/ RABBITS, immunology/
*RADIOIMMUNOASSAY/ TRITIUM

Sex- and age-dependent hydroxylations of testosterone in the liver of normally developed rats and in animals with disturbed sexual development. Ghraf R, et al.

Acta Endocrinol (Kbh) 71:781-91, Dec 72
AGE FACTORS/ ANDROSTENES, metabolism/
ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
CULTURE MEDIA/ ENVIRONMENT,
CONTROLLED/ ESTRADIOL,
pharmacodynamics/ FEMALE/ FEMINIZATION,
metabolism/ HYDROXYLATION/ IN VITRO/
MALE/ METHODS/ *MICROSOMES, LIVER,
metabolism/ RATS/ RATS, INBRED STRAINS/
SEX DIFFERENTIATION DISORDERS,
metabolism/ SEX FACTORS/ STEROID
HYDROXYLASES, analysis/ TESTOSTERONE,
analysis/ *TESTOSTERONE, metabolism

Preliminary characterization of the 5 -dihydrotestosterone binding protein in the epididymal cytosol fraction. In vivo studies. Hansson V, et al. *Acta Endocrinol (Kbh)* 71:614-24, Nov 72

ANDROGENS, analysis/ ANIMAL
EXPERIMENTS/ CASTRATION/
CHROMATOGRAPHY, THIN LAYER/
CRYSTALLIZATION/ *CYTOSOL, metabolism/
ELECTROPHORESIS, POLYACRYLAMIDE
GEL/ EPIDIDYMI, metabolism/ GEL
FILTRATION/ LIVER, metabolism/ MALE/
METHODS/ MOLECULAR WEIGHT/ PROTEIN
BINDING/ PROTEINS, metabolism/ RATS/
SEMINAL VESICLES, metabolism/ SUCROSE/
*TESTOSTERONE, metabolism/ TRITIUM/
ULTRACENTRIFUGATION

Peripheral plasma levels of 17 -hydroxyprogesterone, progesterone and oestradiol during normal menstrual cycles in women. Holmdahl TH, et al.

Acta Endocrinol (Kbh) 71:743-54, Dec 72
ADULT/ BINDING, COMPETITIVE/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
THIN LAYER/ *ESTRADIOL, blood/
FEMALE/ HUMAN/
*HYDROXYPROGESTERONE, blood/ IMMUNE
SERUMS/ MENOPAUSE/ METHODS/
OVULATION/ *PROGESTERONE, blood/
PROTEIN BINDING/ RADIOIMMUNOASSAY/
TIME FACTORS/ TRANSCORTIN

Applications of a simple staining technique for steroids on thin-layer chromatograms. Jeffery J.

Biochem J 129:26P-27P, Sep 72
*CHROMATOGRAPHY, THIN LAYER/
METHODS/ *STAINS AND STAINING/
*STEROIDS, analysis

Gas-liquid chromatographic measurement of oestril, oestrone and oestradiol-17 beta in the plasma of pregnant women. A method and its application in the second half of normal and pathological pregnancies. Fischer-Rasmussen W.

Dan Med Bull 19:Suppl 2:1-56, Sep 72
ADOLESCENCE/ ADULT/ ASPHYXIA
NEONATORUM/ BIRTH WEIGHT/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
DELIVERY/ *ESTRADIOL, blood/ *ESTRIOL,
blood/ *ESTRONE, blood/ FEMALE/ FETAL
DEATH/ FETUS/ GESTATIONAL AGE/
HUMAN/ INFANT, NEWBORN/ MALE/
METHODS/ *PREGNANCY/ PREGNANCY
COMPLICATIONS, blood/ PREGNANCY,
PROLONGED/ TIME FACTORS

Studies on the dynamics of plasma androgens and on the origin of dihydrotestosterone in dogs. Tremblay RR, et al. *Endocrinology* 91:556-61, Aug 72

ADRENAL GLANDS, secretion/
ANDROSTANES, blood/ *ANDROSTANES,
metabolism/ ANDROSTANES, secretion/
ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/ DOGS/
17-KETOSTEROIDS, blood/
17-KETOSTEROIDS, metabolism/

17-KETOSTEROIDS, secretion/ MALE/
METABOLIC CLEARANCE RATE/ METHODS/
*STANOLONE, biosynthesis/ TESTIS,
secretion/ TESTOSTERONE, blood/
*TESTOSTERONE, metabolism/
TESTOSTERONE, secretion/ TRITIUM

Determination of steroids by densitometry of
derivatives. 3. Micro-assay of estrogens as dansyl
derivatives. Penzes LP, et al.

J Chromatogr 74:359-65, 20 Dec 72
CHROMATOGRAPHY, THIN LAYER/ DANSYL
COMPOUNDS, analysis/ DENSITOMETRY/
ESTRADIOL, analysis/ ESTRONE, analysis/
*ESTROGENS, analysis/ ESTRONE, analysis/
FLUOROMETRY/ METHODS/
MICROCHEMISTRY

Radioimmunoassay of 15-hydroxyestriol in pregnancy
plasma. Fishman J, et al.

J Clin Endocrinol Metab 35:892-6, Dec 72
ANTIGEN-ANTIBODY REACTIONS/ CATTLE,
immunology/ CHROMATOGRAPHY, THIN
LAYER/ CROSS REACTIONS/ *ESTRIOL,
blood/ FEMALE/ GESTATIONAL AGE/
HUMAN/ HYDROXYSTEROIDS, blood/ MALE/
METHODS/ *PREGNANCY/ RABBITS,
immunology/ RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ TRITIUM

Measurement of oestrone sulphate, oestradiol-17 and
oestrone in human peripheral plasma. Hawkins RA, et
al. J Endocrinol 55:13-4, Nov 72

CHROMATOGRAPHY, THIN LAYER/
*ESTRADIOL, blood/ *ESTRONE, blood/
FEMALE/ HUMAN/ MALE/ METHODS/
RADIOLOGIC ASSAY/ SULFATES, blood/
TRITIUM

In-situ iodination and purification of steroidal tyrosine
methyl esters on thin-layer chromatograms. Ismail
AA, et al. J Endocrinol 55:13, Nov 72

CHLORAMINES/ *CHROMATOGRAPHY, THIN
LAYER/ ESTERS, isolation & purification/
IMMUNE SERUMS/ *IODINE ISOTOPES/
METHODS/ SERUM ALBUMIN, BOVINE/
SERUM ALBUMIN, RADIO-IODINATED/
*STEROIDS, isolation & purification/
TESTOSTERONE, isolation & purification/
*TYROSINE, isolation & purification

COLORIMETRY

[Colorimetric determination of urinary steroids]
Kamada S. Jap J Clin Pathol 20:381-6, Jun 72 (Jap)
*ADRENAL CORTEX HORMONES, urine/
*COLORIMETRY/ ESTRIOL, urine/ FEMALE/
HUMAN/ 17-HYDROXYCORTICOSTEROIDS,
urine/ 17-KETOSTEROIDS, urine/ METHODS/
PITUITARY-ADRENAL FUNCTION TESTS/
PREGNANCY/ PREGNANCY TESTS/
PREGNANEDIOL, urine

[Methods of iodine determination in water.
Comparative studies] Kelus J.
Rocz Panstw Zaki Hig 23:477-86, 1972 (Eng. Abstr.)
(Pol)

CHEMISTRY/ CHLORINE, analysis/
COLORIMETRY/ COMPARATIVE STUDY/
ENGLISH ABSTRACT/ HYDROGEN-ION
CONCENTRATION/ *IODINE, analysis/
METHODS/ *WATER, analysis/ WATER
POLLUTION, CHEMICAL, analysis

INSTRUMENTATION

[New semi-automated method for the determination of
serum thyroxine(T4) using the T4 Column (Oxford
Company) and autoanalyzer--a new method using
chloride as an activator] Gemba T, et al.

Jap J Clin Pathol 20:439-44, Jun 72 (Jap)
ADULT/ AUTOANALYSIS, instrumentation/
BLOOD PROTEINS/ CHLORIDES/
COLORIMETRY, instrumentation/
COMPARATIVE STUDY/ FEMALE/ HUMAN/
INDICATORS AND REAGENTS/ IODINE,
blood/ ION EXCHANGE RESINS/ MALE/
METHODS/ PROTEIN BINDING/
*THYROXINE, blood

COMPARATIVE STUDY

A radioimmunoassay which specifically measures
human chorionic gonadotropin in the presence of
human luteinizing hormone. Valtukaitis JL, et al.
Am J Obstet Gynecol 113:751-8, 15 Jul 72

ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ BIOLOGICAL ASSAY/
CASTRATION/ CHORIOCARCINOMA, blood/
CHORIOCARCINOMA, drug therapy/
COMPARATIVE STUDY/ CROSS REACTIONS/
FEMALE/ *GONADOTROPINS, CHORIONIC,
blood/ HUMAN/ IMMUNE SERUMS/ IODINE
ISOTOPES/ *LH, blood/ MALE/
MENSTRUATION/ METHODS/ MICE/
*RADIOIMMUNOASSAY

Evaluation of "Dexsil 300 GC" as stationary phase in gas
chromatography of triliodothyronine and thyroxine in
human serum. Tajuddin M, et al.

Clin Chem 19:109-12, Jan 73
BLOOD PROTEINS/ CHEMISTRY/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
COMPARATIVE STUDY/ DRUG STABILITY/
ESTERS/ EVALUATION STUDIES/ HEAT/
HUMAN/ IODINE ISOTOPES, DIAGNOSTIC/
METHODS/ PROPIONATES/ PROTEIN
BINDING/ SILICON/ THYROID DISEASES,
diagnosis/ THYROID GLAND FUNCTION
TESTS/ *THYROXINE, blood/
*TRIIODOTHYRONINE, blood

Investigation of a radioimmunoassay for plasma
estrone and estradiol-17beta in males and
nonpregnant females. Comparison with an
independent method using fluorimetry. Wright K, et
al. J Clin Endocrinol Metab 36:165-73, Jan 73

CHROMATOGRAPHY/ COMPARATIVE
STUDY/ CROSS REACTIONS/ *ESTRADIOL,
blood/ *ESTRONE, blood/ FEMALE/
FLUOROMETRY/ HUMAN/ IMMUNE
SERUMS/ MALE/ METHODS/
*RADIOIMMUNOASSAY/ SHEEP, immunology/
TRITIUM

[Comparison between radioimmunological and
biological determination of plasma renin activity]
Sassard J, et al.

Clin Chim Acta 41:321-7, Oct 72 (Eng. Abstr.) (Fre)
ANGIOTENSIN, blood/ ANGIOTENSINASE,
antagonists & inhibitors/ BIOLOGICAL
ASSAY/ COMPARATIVE STUDY/ EDTA,
pharmacodynamics/ ENGLISH ABSTRACT/
HUMAN/ HYDROGEN-ION CONCENTRATION/
HYPERTENSION, blood/ INFANT, NEWBORN/
IODINE ISOTOPES/ KINETICS/ KININASE II,
antagonists & inhibitors/ METHODS/
QUINOLINES, pharmacodynamics/
RADIOIMMUNOASSAY/ *RENIN, blood

[New semi-automated method for the determination of
serum thyroxine(T4) using the T4 Column (Oxford
Company) and autoanalyzer--a new method using
chloride as an activator] Gemba T, et al.

Jap J Clin Pathol 20:439-44, Jun 72 (Jap)
ADULT/ AUTOANALYSIS, instrumentation/
BLOOD PROTEINS/ CHLORIDES/
COLORIMETRY, instrumentation/
COMPARATIVE STUDY/ FEMALE/ HUMAN/
INDICATORS AND REAGENTS/ IODINE,
blood/ ION EXCHANGE RESINS/ MALE/
METHODS/ PROTEIN BINDING/
*THYROXINE, blood

[Methods of iodine determination in water.
Comparative studies] Kelus J.

Rocz Panstw Zaki Hig 23:477-86, 1972 (Eng. Abstr.)
(Pol)

CHEMISTRY/ CHLORINE, analysis/
COLORIMETRY/ COMPARATIVE STUDY/
ENGLISH ABSTRACT/ HYDROGEN-ION
CONCENTRATION/ *IODINE, analysis/
METHODS/ *WATER, analysis/ WATER
POLLUTION, CHEMICAL, analysis

[Experiences in other countries with a new
immunologic test for the determination of luteinizing
hormone] Garcia Torres FZ.

Ginecol Obstet Mex 32:463-72, Nov 72 (Eng. Abstr.)

(Spa)
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ FEMALE/ HEMAGGLUTINATION
INHIBITION TESTS/ HUMAN/
*IMMUNOASSAY/ *LH, urine/ MALE/
METHODS

[Determination of urinary luteinizing hormone in the study of the functioning of the hypophyseal-gonadal axis] Rhi-Velasco L, et al.
Ginecol Obstet Mex 32:447-53, Nov 72 (Eng. Abstr.)

(Spa)
ADULT/ COMPARATIVE STUDY/
*ENDOCRINE DISEASES, physiopathology/
ENGLISH ABSTRACT/ FEMALE/ HUMAN/
LH, blood/ *LH, urine/ METHODS/ *OVARY,
physiopathology/ *PITUITARY GLAND,
physiopathology/ *PITUITARY NEOPLASMS,
physiopathology/ RADIOIMMUNOASSAY

[Radioimmunoassay of luteinizing hormone: use of a 2d antibody in solid phase] Castellanos Llorens JM, et al.
Rev Iber Endocrinol 19:501-14, Nov-Dec 72 (Eng. Abstr.)

(Spa)
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ HUMAN/ *LH, blood/ METHODS/
*RADIOIMMUNOASSAY

DENSITOMETRY

Determination of steroids by densitometry of derivatives. 3. Micro-assay of estrogens as dansyl derivatives. Penzes LP, et al.

J Chromatogr 74:359-65, 20 Dec 72
CHROMATOGRAPHY, THIN LAYER/ DANSYL
COMPOUNDS, analysis/ DENSITOMETRY/
ESTRADIOL, analysis/ ESTRADIOL, analysis/
*ESTROGENS, analysis/ ESTRONE, analysis/
FLUOROMETRY/ METHODS/
MICROCHEMISTRY

A photon scattering technique for the measurement of absolute bone density in man. Garnett ES, et al.
Radiology 106:209-12, Jan 73

*BONE AND BONES, anatomy & histology/
*DENSITOMETRY/ EVALUATION STUDIES/
GOLD ISOTOPES/ HUMAN/ LUMBAR
VERTEBRAE, anatomy & histology/
METHODS/ *RADIATION/ SCATTERING

DENSITOMETRY, X-RAY

Soft tissue intensification in frontal roentgenography of the larynx. Hemmingsson A, et al.
Acta Radiol [Diagn] (Stockh) 12:593-603, Sep 72
BONE AND BONES, radiography/
COMPUTERS, DIGITAL/ DENSITOMETRY,
X-RAY/ *LARYNX, radiography/ METHODS/
MODELS, STRUCTURAL/ RADIATION
DOSAGE/ SUBTRACTION TECHNIC/
TECHNOLOGY, RADIOLOGIC, instrumentation/
TELEVISION

DIAGNOSIS, DIFFERENTIAL

[Differential diagnostic significance of thyroid hormone and TSH determination] Reinwein D.
Med Klin 67:1577-83, 1 Dec 72 (49 ref.) (Ger)

DIAGNOSIS, DIFFERENTIAL/ GOITER, blood/
HEPARIN, pharmacodynamics/ HUMAN/
HYPERTHYROIDISM, blood/
HYPERTHYROIDISM, radiotherapy/
HYPOTHYROIDISM, blood/ IODINE
ISOTOPES, therapeutic use/ METHODS/
NEPHROTIC SYNDROME, blood/
PROTEIN-BOUND IODINE TEST/ REVIEW/
THYROID ANTAGONISTS, pharmacodynamics/
*THYROID HORMONES, blood/
*THYROTROPIN, blood/ THYROTROPIN
RELEASING FACTOR, pharmacodynamics/
THYROXINE, blood/ THYROXINE-BINDING
PROTEIN/ TRIIODOTHYRONINE, blood

[ACTH determination and its clinical application] Staub JJ, et al.

Ther Umsch 29:523-9, Sep 72 (Eng. Abstr.) (Ger)
*ADRENAL GLAND DISEASES, blood/
BIOLOGICAL ASSAY/ *CORTICOTROPIN,
blood/ CUSHING'S SYNDROME, blood/
DIAGNOSIS, DIFFERENTIAL/ ENGLISH

ABSTRACT/ HUMAN/ METHODS/
RADIOIMMUNOASSAY

DIALYSIS

Immunoreactive growth hormone in human urine.
Hanssen KF. Acta Endocrinol (Kbh) 71:665-76, Dec 72

ACROMEGALY, urine/ ADULT/ BINDING
SITES, ANTIBODY/ DIALYSIS/ FEMALE/
FREEZE DRYING/ GEL FILTRATION/
HUMAN/ HYPOPHYSECTOMY, urine/
IMMUNOELECTROPHORESIS/ IODINE
ISOTOPES/ MALE/ METHODS/ MOLECULAR
WEIGHT/ PRECIPITATION/
RADIOIMMUNOASSAY/ SOMATOTROPIN,
metabolism/ *SOMATOTROPIN, urine/
TEMPERATURE/ TIME FACTORS/ URINE,
analysis

Immunological measurements of urinary insulin for the evaluation of insulin production. Orskov H, et al.
Acta Endocrinol (Kbh) 71:697-708, Dec 72

ALBUMINS, diagnostic use/ BINDING SITES/
BLOOD SUGAR, analysis/ BUFFERS/
CHROMATOGRAPHY/ DIALYSIS/
FILTRATION/ GLUCOSE TOLERANCE TEST/
HUMAN/ IMMUNOASSAY/ INSULIN, blood/
*INSULIN, urine/ INSULIN ANTIBODIES/
IODINE ISOTOPES/ METHODS/
TEMPERATURE/ TIME FACTORS

ELECTROPHORESIS

Radioimmunoassay for follicle stimulating hormone in the rhesus monkey using an anti-human FSH serum and rat FSH131I. Boorman GA, et al.

Endocrinology 92:618-23, Feb 73
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ ELECTROPHORESIS/ ESTRUS/
FEMALE/ *FSH, blood/ HUMAN/ IODINE
ISOTOPES/ MACACA/ MENSTRUATION/
METHODS/ MONKEYS/ PITUITARY GLAND,
physiology/ *RADIOIMMUNOASSAY/ RATS,
immunology

Development of a radioimmunoassay for canine luteinizing hormone. Boyns AR, et al.

J Endocrinol 55:279-91, Nov 72
ANIMAL EXPERIMENTS/ ANTIBODIES/
CASTRATION/ CATS/ CHROMATOGRAPHY/
*DOGS/ ELECTROPHORESIS/ ESTROGENS/
ESTRUS/ FEMALE/ HUMAN/ IMMUNE
SERUMS/ IODINE ISOTOPES/ *LH, blood/
MALE/ METHODS/ *RADIOIMMUNOASSAY/
RATS/ SHEEP

ELECTROPHORESIS, DISK

Isolation and characterization of renin-like enzymes from mouse submaxillary glands. Cohen S, et al.
Biochemistry 11:4286-93, 7 Nov 72

AMINO ACIDS, analysis/ AMMONIUM
SULFATE/ ANGIOTENSIN, pharmacodynamics/
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ BLOOD PRESSURE, drug effects/
CHROMATOGRAPHY, ION EXCHANGE/
CRYSTALLIZATION/ ELECTROPHORESIS,
DISK/ GEL DIFFUSION TESTS/ GEL
FILTRATION/ GLYCOPROTEINS, analysis/
ISOELECTRIC FOCUSING/ MALE/ METHODS/
MICE/ MOLECULAR WEIGHT/ PEPTIDES/
RABBITS, immunology/ RATS/ RENIN,
analysis/ *RENIN, isolation & purification/
RENIN, pharmacodynamics/
*SUBMANDIBULAR GLAND, enzymology/
ULTRACENTRIFUGATION

ELECTROPHORESIS,

POLYACRYLAMIDE GEL

Preliminary characterization of the 5
-dihydrotestosterone binding protein in the
epididymal cytosol fraction. In vivo studies. Hansson
V, et al. Acta Endocrinol (Kbh) 71:614-24, Nov 72
ANDROGENS, analysis/ ANIMAL
EXPERIMENTS/ CASTRATION/
CHROMATOGRAPHY, THIN LAYER/
CRYSTALLIZATION/ *CYTOSOL, metabolism/
ELECTROPHORESIS, POLYACRYLAMIDE

GEL/ EPIDIDYMISS, metabolism/ GEL
FILTRATION/ LIVER, metabolism/ MALE/
METHODS/ MOLECULAR WEIGHT/ PROTEIN
BINDING/ PROTEINS, metabolism/ RATS/
SEMINAL VESICLES, metabolism/ SUCROSE/
*TESTOSTERONE, metabolism/ TRITIUM/
ULTRACENTRIFUGATION

[Physicochemical properties of progesterone binding
protein (PBP) from the plasma of pregnant guinea
pigs] Alouch P, et al.

C R Acad Sci [D] (Paris) 275:1707-10, 9 Oct 72 (Fre)
AMINO ACIDS, blood/ ANIMAL
EXPERIMENTS/ *BLOOD PROTEINS, analysis/
ELECTROPHORESIS, POLYACRYLAMIDE
GEL/ FEMALE/ GLYCOPROTEINS, blood/
GUINEA PIGS/ ISOELECTRIC FOCUSING/
METHODS/ MOLECULAR WEIGHT/
PREGNANCY/ *PROGESTERONE, blood/
*PROTEIN BINDING/ SODIUM DODECYL
SULFATE/ TIME FACTORS

FILTRATION

Immunological measurements of urinary insulin for the
evaluation of insulin production. Orskov H, et al.

Acta Endocrinol (Kbh) 71:697-708, Dec 72
ALBUMINS, diagnostic use/ BINDING SITES/
BLOOD SUGAR, analysis/ BUFFERS/
CHROMATOGRAPHY/ DIALYSIS/
FILTRATION/ GLUCOSE TOLERANCE TEST/
HUMAN/ IMMUNOASSAY/ INSULIN, blood/
*INSULIN, urine/ INSULIN ANTIBODIES/
IODINE ISOTOPES/ METHODS/
TEMPERATURE/ TIME FACTORS

Competitive binding assay for adenosine
3',5'-monophosphate employing a bovine adrenal
protein: application to urine, plasma and tissues.
Tsang PW, et al.

J Clin Endocrinol Metab 35:809-17, Dec 72
*ADENOSINE CYCLIC 3',5'
MONOPHOSPHATE, analysis/ ADENOSINE
CYCLIC 3',5' MONOPHOSPHATE, blood/
ADENOSINE CYCLIC 3',5' MONOPHOSPHATE,
isolation & purification/ ADENOSINE CYCLIC
3',5' MONOPHOSPHATE, urine/
ADOLESCENCE/ ADRENAL CORTEX
HORMONES, analysis/ ADULT/ ANIMAL
EXPERIMENTS/ *BINDING, COMPETITIVE/
CATTLE/ CHARCOAL/ CHILD/ CHILD,
PRESCHOOL/ FILTRATION/ HUMAN/
HYDROGEN-ION CONCENTRATION/ MALE/
MEMBRANES, ARTIFICIAL/ METHODS/
RATS/ RESINS/ TRITIUM

FLUORESCENCE SPECTROMETRY

[Determination of steroid hormones in the blood by
means of radioassay] Hosogi H.

Jap J Clin Pathol 20:391-9, Jun 72 (Jap)
*ADRENAL CORTEX HORMONES, blood/
ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ BLOOD PROTEINS/
CUSHING'S SYNDROME, blood/ DOGS/
FLUORESCENCE SPECTROMETRY/ HUMAN/
17-HYDROXYCORTICOSTEROIDS, blood/
METHODS/ PROTEIN BINDING/ SHEEHAN'S
SYNDROME, blood/ TRANSCORTIN, blood/
TRITIUM

FLUOROMETRY

Cardiac noradrenaline turnover and urinary
catecholamine excretion in trained and untrained rats
during rest and exercise. Ostman I, et al.

Acta Physiol Scand 86:299-308, Nov 72
ADRENAL GLANDS, metabolism/ ANIMAL
EXPERIMENTS/ BODY WEIGHT/
EPINEPHRINE, metabolism/ EPINEPHRINE,
urine/ *EXERTION/ FLUOROMETRY/ HEART,
anatomy & histology/ MALE/ METHODS/
*MYOCARDIUM, metabolism/
NOREPINEPHRINE, analysis/
*NOREPINEPHRINE, metabolism/
NOREPINEPHRINE, urine/ ORGAN WEIGHT/
RATS/ TIME FACTORS/ TRITIUM

The release of protein in the course of catecholamine
secretion from bovine adrenals perfused in vitro.

Serck-Hanssen G.

Acta Physiol Scand 86:289-98, Nov 72
ACETYLCHOLINE, pharmacodynamics/
ADRENAL GLANDS, metabolism/ *ADRENAL
MEDULLA, metabolism/ ANIMAL
EXPERIMENTS/ BUFFERS/
CATECHOLAMINES, analysis/
*CATECHOLAMINES, metabolism/ CATTLE/
CELL FRACTIONATION/ CHROMAFFIN
SYSTEM, metabolism/ FLUOROMETRY/ IN
VITRO/ METHODS/ MICROSOMES/
PERFUSION/ PROTEINS, analysis/
*PROTEINS, metabolism/ STIMULATION,
CHEMICAL/ TIME FACTORS/
ULTRACENTRIFUGATION

Enhancement by indomethacin of cold-induced
hypersecretion of noradrenaline in the rat in vivo by
suppression of PGE mediated feed-back control?

Stjärne L. Acta Physiol Scand 86:388-97, Nov 72
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*EPINEPHRINE, urine/ *FEEDBACK/
FEMALE/ FLUOROMETRY/ *INDOMETHACIN,
pharmacodynamics/ KIDNEY, drug effects/
METHODS/ *NOREPINEPHRINE, urine/
PHYSICAL STIMULATION/
*PROSTAGLANDINS, physiology/ RATS/
STIMULATION, CHEMICAL/ TIME FACTORS/
TRITIUM

A simplified method for estimation of estriol in
pregnancy plasma. Mathur RS, et al.

Am J Obstet Gynecol 113:1120-9, 15 Aug 72
CARBON ISOTOPES/ *ESTRIOL, blood/
FEMALE/ FLUOROMETRY/ HUMAN/
HYDROLYSIS/ INDICATORS AND
REAGENTS/ METHODS/ *PREGNANCY/
PREGNANCY COMPLICATIONS, blood

Determination of steroids by densitometry of
derivatives. 3. Micro-assay of estrogens as dansyl
derivatives. Penzes LP, et al.

J Chromatogr 74:359-65, 20 Dec 72
CHROMATOGRAPHY, THIN LAYER/ DANSYL
COMPOUNDS, analysis/ DENSITOMETRY/
ESTRADIOL, analysis/ ESTRIOL, analysis/
*ESTROGENS, analysis/ ESTRONE, analysis/
FLUOROMETRY/ METHODS/
MICROCHEMISTRY

Investigation of a radioimmunoassay for plasma
estrone and estradiol-17beta in males and
nonpregnant females. Comparison with an
independent method using fluorimetry. Wright K, et
al. J Clin Endocrinol Metab 36:165-73, Jan 73
CHROMATOGRAPHY/ COMPARATIVE
STUDY/ CROSS REACTIONS/ *ESTRADIOL,
blood/ *ESTRONE, blood/ FEMALE/
FLUOROMETRY/ HUMAN/ IMMUNE
SERUMS/ MALE/ METHODS/
*RADIOIMMUNOASSAY/ SHEEP, immunology/
TRITIUM

GEL FILTRATION

Peripheral plasma levels of oestrogens, progesterone
and 17-hydroxyprogesterone during the menstrual
cycle of the rhesus monkey. Bosu WT, et al.

Acta Endocrinol (Kbh) 71:755-64, Dec 72
ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ CHROMATOGRAPHY/ DIET/
ESTRADIOL, blood/ *ESTROGENS, blood/
ESTRONE, blood/ ESTRUS/ FEMALE/ GEL
FILTRATION/ HEMATOCRIT/
*HYDROXYPROGESTERONE, blood/ MACACA/
METHODS/ MONKEYS/ *PROGESTERONE,
blood/ RADIOIMMUNOASSAY/ TIME
FACTORS

Radioimmunoassay of growth hormone in human
plasma. Methodological studies and plasma
immunoreactive growth hormone concentration
during insulin induced hypoglycaemia in normal
children and adults. Hanssen KF.

Acta Endocrinol (Kbh) 71:649-64, Dec 72
ADOLESCENCE/ ADULT/ BLOOD SUGAR,
analysis/ CHILD/ CHILD, PRESCHOOL/
FEMALE/ GEL FILTRATION/ GLUCOSE
TOLERANCE TEST/ GUINEA PIGS,
immunology/ HUMAN/ HYPOGLYCEMIA,

chemically induced/ INSULIN/ IODINE ISOTOPES/ MALE/ METHODS/ MIDDLE AGE/ PRECIPITATION/ RABBITS, immunology/ RADIOIMMUNOASSAY/ *SOMATOTROPIN, blood/ TIME FACTORS

Immunoreactive growth hormone in human urine. Hanssen KF. *Acta Endocrinol (Kbh)* 71:665-76, Dec 72
ACROMEGALY, urine/ ADULT/ BINDING SITES, ANTIBODY/ DIALYSIS/ FEMALE/ FREEZE DRYING/ GEL FILTRATION/ HUMAN/ HYPOTITUITARISM, urine/ IMMUNOELECTROPHORESIS/ IODINE ISOTOPES/ MALE/ METHODS/ MOLECULAR WEIGHT/ PRECIPITATION/ RADIOIMMUNOASSAY/ SOMATOTROPIN, metabolism/ *SOMATOTROPIN, urine/ TEMPERATURE/ TIME FACTORS/ URINE, analysis

Preliminary characterization of the 5-dihydrotestosterone binding protein in the epididymal cytosol fraction. In vivo studies. Hansson V, et al. *Acta Endocrinol (Kbh)* 71:614-24, Nov 72
ANDROGENS, analysis/ ANIMAL EXPERIMENTS/ CASTRATION/ CHROMATOGRAPHY, THIN LAYER/ CRYSTALLIZATION/ *CYTOSOL, metabolism/ ELECTROPHORESIS, POLYACRYLAMIDE GEL/ EPIDIDYMIS, metabolism/ GEL FILTRATION/ LIVER, metabolism/ MALE/ METHODS/ MOLECULAR WEIGHT/ PROTEIN BINDING/ PROTEINS, metabolism/ RATS/ SEMINAL VESICLES, metabolism/ SUCROSE/ *TESTOSTERONE, metabolism/ TRITIUM/ ULTRACENTRIFUGATION

Studies concerning a radioimmunoassay for oxytocin. Bashore RA. *Am J Obstet Gynecol* 113:488-96, 15 Jun 72
ANTIBODIES, analysis/ ANTIBODY FORMATION/ BINDING SITES/ BINDING SITES, ANTIBODY/ FEMALE/ GEL FILTRATION/ GOATS, immunology/ HUMAN/ IMMUNE SERUMS/ IODINE ISOTOPES/ ISOTOPE LABELING/ LABOR/ METHODS/ *OXYTOCIN, blood/ OXYTOCIN, isolation & purification/ PREGNANCY/ RABBITS, immunology/ *RADIOIMMUNOASSAY/ ULTRAFILTRATION

Isolation and characterization of renin-like enzymes from mouse submaxillary glands. Cohen S, et al. *Biochemistry* 11:4286-93, 7 Nov 72
AMINO ACIDS, analysis/ AMMONIUM SULFATE/ ANGIOTENSIN, pharmacodynamics/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ BLOOD PRESSURE, drug effects/ CHROMATOGRAPHY, ION EXCHANGE/ CRYSTALLIZATION/ ELECTROPHORESIS, DISK/ GEL DIFFUSION TESTS/ GEL FILTRATION/ GLYCOPROTEINS, analysis/ ISOELECTRIC FOCUSING/ MALE/ METHODS/ MICE/ MOLECULAR WEIGHT/ PEPTIDES/ RABBITS, immunology/ RATS/ RENIN, analysis/ *RENIN, isolation & purification/ RENIN, pharmacodynamics/ *SUBMANDIBULAR GLAND, enzymology/ ULTRACENTRIFUGATION

Excretion of steroid hormones in adults. Steroids in urine from adults. Eriksson H, et al. *Clin Chim Acta* 41:79-90, Oct 72
ADULT/ *ANDROSTANES, urine/ ANDROSTENES, urine/ ANDROSTERONE, urine/ CARBON ISOTOPES/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ DEHYDROEPIANDROSTERONE, urine/ ETIOCHOLANOLONE, urine/ FEMALE/ GEL FILTRATION/ GLUCURONATES, urine/ HUMAN/ HYDROXYSTEROIDS, urine/ 17-KETOSTEROIDS, urine/ KETOSTEROIDS, urine/ MALE/ MASS SPECTRUM ANALYSIS/ METHODS/ *PREGNANES, urine/ PREGNENES, urine/ SEX FACTORS/ SULFURIC ACIDS, urine/ TRITIUM

In vivo studies of luteinizing hormone-releasing factor in the chicken hypothalamus. Opel H, et al. *Poult Sci* 51:1004-14, May 72

ANIMAL EXPERIMENTS/ BIOGENIC AMINES, pharmacodynamics/ CEREBRAL CORTEX, analysis/ *CHICKENS, metabolism/ CHICKENS, physiology/ FEMALE/ GEL FILTRATION/ HYPOPHYSECTOMY/ *HYPOTHALAMUS, analysis/ HYPOTHALAMUS, physiology/ INJECTIONS/ INJECTIONS, INTRAVENOUS/ *LH/ METHODS/ OVULATION, drug effects/ PITUITARY GLAND/ PITUITARY GLAND, drug effects/ PITUITARY GLAND, POSTERIOR, analysis/ PITUITARY HORMONE RELEASING FACTORS, administration & dosage/ *PITUITARY HORMONE RELEASING FACTORS, analysis/ PITUITARY HORMONE RELEASING FACTORS, pharmacodynamics/ QUAIL

[Measurement of plasma renin activity by angiotensin I radioimmunoassay—a modification of Haber's method] Abe K, et al.

Jap Circ J 36:741-9, Jul 72 (Eng. Abstr.) (Jap)
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[Study of a method of preparation of human growth hormone by fractionation in ammonium sulfate and gel filtration in Sephadex G-100. Preliminary studies of the eluates with Ouchterlony's and I-125 labelled immune reactions] Assis LM de, et al. *Rev Assoc Med Bras* 18:299-304, Aug 72 (Eng. Abstr.) (Por)

AMMONIUM SULFATE/ ENGLISH ABSTRACT/ *GEL DIFFUSION TESTS/ *GEL FILTRATION/ HUMAN/ METHODS/ *SOMATOTROPIN, isolation & purification

HEMAGGLUTINATION INHIBITION TESTS

[Clinical application of LH determination] Calderón Márquez JJ. *Ginecol Obstet Mex* 32:395-401, Oct 72 (Eng. Abstr.) (Spa)

ENGLISH ABSTRACT/ FEMALE/ *GYNECOLOGIC DISEASES, diagnosis/ GYNECOLOGIC DISEASES, urine/ HEMAGGLUTINATION INHIBITION TESTS/ HUMAN/ *LH, urine/ METHODS/ PITUITARY GLAND FUNCTION TESTS/ PREGNANCY

[Experiences in other countries with a new immunologic test for the determination of luteinizing hormone] García Torres FZ. *Ginecol Obstet Mex* 32:463-72, Nov 72 (Eng. Abstr.) (Spa)

COMPARATIVE STUDY/ ENGLISH ABSTRACT/ FEMALE/ HEMAGGLUTINATION INHIBITION TESTS/ HUMAN/ *IMMUNOASSAY/ *LH, urine/ MALE/ METHODS

[Technical aspects of a new hemagglutination inhibition test for luteinizing hormone] Villanueva Gasca A. *Ginecol Obstet Mex* 32:403-8, Oct 72 (Eng. Abstr.) (Spa)

ENGLISH ABSTRACT/ FEMALE/ *HEMAGGLUTINATION INHIBITION TESTS/ HUMAN/ *LH, urine/ MALE/ METHODS

HISTOCYTOCHEMISTRY

[Histocytochemistry of the island of Langerhans of the Wistar rat pancreas. I. Studies on insulin] Dorsche HH von, et al. *Acta Histochem (Jena)* 43:342-9, 1972 (Eng. Abstr.) (Ger)

ANIMAL EXPERIMENTS/ CYANIDES/ CYTOPLASMIC GRANULES, analysis/ ENGLISH ABSTRACT/ FETUS/ HISTOCYTOCHEMISTRY/ *INSULIN, analysis/ *ISLANDS OF LANGERHANS, analysis/

ISLANDS OF LANGERHANS, cytology/
METHODS/ RATS/ TIME FACTORS

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Immunological measurements of urinary insulin for the evaluation of insulin production. Orskov H, et al. *Acta Endocrinol (Kbh)* 71:697-708, Dec 72

ALBUMINS, diagnostic use/ BINDING SITES/
BLOOD SUGAR, analysis/ BUFFERS/
CHROMATOGRAPHY/ DIALYSIS/
FILTRATION/ GLUCOSE TOLERANCE TEST/
HUMAN/ IMMUNOASSAY/ INSULIN, blood/
*INSULIN, urine/ INSULIN ANTIBODIES/
IODINE ISOTOPES/ METHODS/
TEMPERATURE/ TIME FACTORS

Assay of protein hormones related to human reproduction: problems of specificity of assay methods and reference standards. Report of a meeting. *Acta Endocrinol (Kbh)* 71:625-37, Dec 72

BIOLOGICAL ASSAY/ *FSH, analysis/
GLYCOPROTEINS, analysis/
*GONADOTROPINS, CHORIONIC, analysis/
HUMAN/ IMMUNOASSAY/ *LH, analysis/
METHODS/ MOLECULAR WEIGHT/
*PLACENTAL LACTOGEN, analysis/
*PROLACTIN, analysis/ PROTEIN BINDING/
*THYROTROPIN, analysis

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CATTLE/ CHEMISTRY/ *COLIPHAGES/
FEMALE/ GOATS, immunology/ IMINES/
IMMUNOASSAY/ METHODS/
METHYLAMINES/ *PROSTAGLANDINS,
analysis/ RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ TRITIUM

Measurement of thyroxine and triiodothyronine in human urine. Burke CW, et al. *Lancet* 2:1177-9, 2 Dec 72

GLOMERULAR FILTRATION RATE/ HUMAN/
HYDROLYSIS/ HYPERTHYROIDISM,
diagnosis/ IMMUNOASSAY/ METHODS/
THYROXINE, blood/ *THYROXINE, urine/
TRIIODOTHYRONINE, blood/
*TRIIODOTHYRONINE, urine

[Significance of insulin immunoassay with double antibody system—the 2d antibody titer] Toyota T, et al. *Jap J Clin Pathol* 20:663-6, Sep 72 (Jap)

EVALUATION STUDIES/ GUINEA PIGS,
immunology/ HUMAN/ IMMUNE SERUMS/
*IMMUNOASSAY/ *INSULIN, analysis/
INSULIN, blood/ *INSULIN ANTIBODIES,
analysis/ IODINE ISOTOPES/ METHODS/
RABBITS, immunology

[Experiences in other countries with a new immunologic test for the determination of luteinizing hormone] García Torres FZ.

Ginecol Obstet Mex 32:463-72, Nov 72 (Eng. Abstr.) (Spa)

COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ FEMALE/ HEMAGGLUTINATION
INHIBITION TESTS/ HUMAN/
*IMMUNOASSAY/ *LH, urine/ MALE/
METHODS

IMMUNOELECTROPHORESIS

Immunoreactive growth hormone in human urine. Hanssen KF. *Acta Endocrinol (Kbh)* 71:665-76, Dec 72

ACROMEGALY, urine/ ADULT/ BINDING
SITES, ANTIBODY/ DIALYSIS/ FEMALE/
FREEZE DRYING/ GEL FILTRATION/
HUMAN/ HYPOPHYSECTOMY, urine/
IMMUNOELECTROPHORESIS/ IODINE
ISOTOPES/ MALE/ METHODS/ MOLECULAR
WEIGHT/ PRECIPITATION/
RADIOIMMUNOASSAY/ SOMATOTROPIN,
metabolism/ *SOMATOTROPIN, urine/
TEMPERATURE/ TIME FACTORS/ URINE,
analysis

A new direct method for the assay of human renin. Winch MA, et al. *Experientia* 28:1394-5, 15 Nov 72

HUMAN/ HYPERTENSION, RENAL,
enzymology/ *IMMUNOELECTROPHORESIS/
METHODS/ NEPHRECTOMY/ *RENIN, blood

ION EXCHANGE RESINS

Protein-bound iodine and hormonal iodine after ioxitalamic acid. Aquaron R.

Clin Chim Acta 41:175-80, Oct 72

ACETAMIDES/ ADULT/ AGED/ *BLOOD
PROTEINS/ CONTRAST MEDIA/ FEMALE/
HUMAN/ *IODINE, blood/ IODOBENZOATES/
ION EXCHANGE RESINS/ KINETICS/ MALE/
METHODS/ MIDDLE AGE/ *PHTHALIC ACID/
PROTEIN BINDING

[New semi-automated method for the determination of serum thyroxine(T4) using the T4 Column (Oxford Company) and autoanalyzer—a new method using chloride as an activator] Gemba T, et al.

Jap J Clin Pathol 20:439-44, Jun 72 (Jap)

ADULT/ AUTOANALYSIS, instrumentation/
BLOOD PROTEINS/ CHLORIDES/
COLORIMETRY, instrumentation/
COMPARATIVE STUDY/ FEMALE/ HUMAN/
INDICATORS AND REAGENTS/ IODINE,
blood/ ION EXCHANGE RESINS/ MALE/
METHODS/ PROTEIN BINDING/
*THYROXINE, blood

ISOELECTRIC FOCUSING

Isolation and characterization of renin-like enzymes from mouse submaxillary glands. Cohen S, et al.

Biochemistry 11:4286-93, 7 Nov 72

AMINO ACIDS, analysis/ AMMONIUM
SULFATE/ ANGIOTENSIN, pharmacodynamics/
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ BLOOD PRESSURE, drug effects/
CHROMATOGRAPHY, ION EXCHANGE/
CRYSTALLIZATION/ ELECTROPHORESIS,
DISK/ GEL DIFFUSION TESTS/ GEL
FILTRATION/ GLYCOPROTEINS, analysis/
ISOELECTRIC FOCUSING/ MALE/ METHODS/
MICE/ MOLECULAR WEIGHT/ PEPTIDES/
RABBITS, immunology/ RATS/ RENIN,
analysis/ *RENIN, isolation & purification/
RENIN, pharmacodynamics/
*SUBMANDIBULAR GLAND, enzymology/
ULTRACENTRIFUGATION

[Physicochemical properties of progesterone binding protein (BPB) from the plasma of pregnant guinea pigs] Allouch P, et al.

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AMINO ACIDS, blood/ ANIMAL
EXPERIMENTS/ *BLOOD PROTEINS, analysis/
ELECTROPHORESIS, POLYACRYLAMIDE
GEL/ FEMALE/ GLYCOPROTEINS, blood/
GUINEA PIGS/ ISOELECTRIC FOCUSING/
METHODS/ MOLECULAR WEIGHT/
PREGNANCY/ *PROGESTERONE, blood/
*PROTEIN BINDING/ SODIUM DODECYL
SULFATE/ TIME FACTORS

MASS SPECTRUM ANALYSIS

Method for selective introduction of trimethylsilyl and perdeuterio(trimethylsilyl) groups in hydroxy steroids and its utility in mass spectrometric interpretations. Vouros P, et al. *Anal Chem* 45:7-12, Jan 73

*ANDROSTANES, analysis/ DEUTERIUM/
HYDROXYSTEROIDS, analysis/ MASS
SPECTRUM ANALYSIS/ METHANE/
METHODS/ *PREGNANES, analysis/ SILICON/
*SPECTRUM ANALYSIS

Excretion of steroid hormones in adults. Steroids in urine from adults. Eriksson H, et al.

Clin Chim Acta 41:79-90, Oct 72

ADULT/ *ANDROSTANES, urine/
ANDROSTENES, urine/ ANDROSTERONE,
urine/ CARBON ISOTOPES/
CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, ION EXCHANGE/
DEHYDROEPIANDROSTERONE, urine/
ETIOCHOLANOLONE, urine/ FEMALE/ GEL
FILTRATION/ GLUCURONATES, urine/
HUMAN/ HYDROXYSTEROIDS, urine/
17-KETOSTEROIDS, urine/ KETOSTEROIDS,

urine/ MALE/ MASS SPECTRUM ANALYSIS/
METHODS/ *PREGNANES, urine/
PREGNENES, urine/ SEX FACTORS/
SULFURIC ACIDS, urine/ TRITIUM

MICROCHEMISTRY

Determination of steroids by densitometry of derivatives. 3. Micro-assay of estrogens as dansyl derivatives. Penzes LP, et al.

J Chromatogr 74:359-65, 20 Dec 72

CHROMATOGRAPHY, THIN LAYER/ DANSYL COMPOUNDS, analysis/ DENSITOMETRY/ ESTRADIOL, analysis/ ESTRIOL, analysis/ *ESTROGENS, analysis/ ESTRONE, analysis/ FLUOROMETRY/ METHODS/ MICROCHEMISTRY

ORGAN WEIGHT

Cardiac noradrenaline turnover and urinary catecholamine excretion in trained and untrained rats during rest and exercise. Ostman I, et al.

Acta Physiol Scand 86:299-308, Nov 72

ADRENAL GLANDS, metabolism/ ANIMAL EXPERIMENTS/ BODY WEIGHT/ EPINEPHRINE, metabolism/ EPINEPHRINE, urine/ *EXERTION/ FLUOROMETRY/ HEART, anatomy & histology/ MALE/ METHODS/ *MYOCARDIUM, metabolism/ NOREPINEPHRINE, analysis/ *NOREPINEPHRINE, metabolism/ NOREPINEPHRINE, urine/ ORGAN WEIGHT/ RATS/ TIME FACTORS/ TRITIUM

Renal weight and content of lipids and phospholipid renin "preinhibitor" in rats with renal hypertension. Osmond DH. *J Lab Clin Med* 80:755-64, Dec 72

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Cortisol metabolism in the fetal and neonatal sheep. Nathanielsz PW, et al.

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ADRENAL GLANDS, embryology/ ADRENAL GLANDS, metabolism/ ANESTHESIA/ ANIMAL EXPERIMENTS/ *ANIMALS, NEWBORN, metabolism/ CATHETERIZATION/ FEEDBACK/ FEMALE/ *FETUS, metabolism/ GESTATIONAL AGE/ HYDROCORTISONE, biosynthesis/ HYDROCORTISONE, blood/ *HYDROCORTISONE, metabolism/ HYPOTHALAMUS, physiology/ LABOR/ METABOLIC CLEARANCE RATE/ METHODS/ ORGAN WEIGHT/ PREGNANCY/ PYROGENS, pharmacodynamics/ SECRETORY RATE/ SHEEP

PRECIPITATION

Radioimmunoassay of growth hormone in human plasma. Methodological studies and plasma immunoreactive growth hormone concentration during insulin induced hypoglycaemia in normal children and adults. Hanssen KF.

Acta Endocrinol (Kbh) 71:649-64, Dec 72

ADOLESCENCE/ ADULT/ BLOOD SUGAR, analysis/ CHILD/ CHILD, PRESCHOOL/ FEMALE/ GEL FILTRATION/ GLUCOSE TOLERANCE TEST/ GUINEA PIGS, immunology/ HUMAN/ HYPOGLYCEMIA, chemically induced/ INSULIN/ IODINE ISOTOPES/ MALE/ METHODS/ MIDDLE AGE/ PRECIPITATION/ RABBITS, immunology/ RADIOIMMUNOASSAY/ *SOMATOTROPIN, blood/ TIME FACTORS

Immunoreactive growth hormone in human urine. Hanssen KF. *Acta Endocrinol (Kbh)* 71:665-76, Dec 72

ACROMEGALY, urine/ ADULT/ BINDING SITES, ANTIBODY/ DIALYSIS/ FEMALE/ FREEZE DRYING/ GEL FILTRATION/

HUMAN/ HYPOPITUITARISM, urine/ IMMUNOELECTROPHORESIS/ IODINE ISOTOPES/ MALE/ METHODS/ MOLECULAR WEIGHT/ PRECIPITATION/ RADIOIMMUNOASSAY/ SOMATOTROPIN, metabolism/ *SOMATOTROPIN, urine/ TEMPERATURE/ TIME FACTORS/ URINE, analysis

PROTEIN BINDING

Preliminary characterization of the 5 -dihydrotestosterone binding protein in the epididymal cytosol fraction. In vivo studies. Hansson V, et al. *Acta Endocrinol (Kbh)* 71:614-24, Nov 72

ANDROGENS, analysis/ ANIMAL EXPERIMENTS/ CASTRATION/ CHROMATOGRAPHY, THIN LAYER/ CRYSTALLIZATION/ *CYTOSOL, metabolism/ ELECTROPHORESIS, POLYACRYLAMIDE GEL/ EPIDIDYMIS, metabolism/ GEL FILTRATION/ LIVER, metabolism/ MALE/ METHODS/ MOLECULAR WEIGHT/ PROTEIN BINDING/ PROTEINS, metabolism/ RATS/ SEMINAL VESICLES, metabolism/ SUCROSE/ *TESTOSTERONE, metabolism/ TRITIUM/ ULTRACENTRIFUGATION

Peripheral plasma levels of 17 -hydroxyprogesterone during human pregnancy. Holmdahl TH, et al.

Acta Endocrinol (Kbh) 71:765-72, Dec 72

ADULT/ CHROMATOGRAPHY/ CORTICOSTERONE/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROXYPROGESTERONE, blood/ METHODS/ PREGNANCY/ *PREGNANCY/ *PROGESTERONE, blood/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ TIME FACTORS/ TRITIUM

Peripheral plasma levels of 17 -hydroxyprogesterone, progesterone and oestradiol during normal menstrual cycles in women. Holmdahl TH, et al.

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ADULT/ BINDING, COMPETITIVE/ CHROMATOGRAPHY/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ *HYDROXYPROGESTERONE, blood/ IMMUNE SERUMS/ MENOPAUSE/ METHODS/ OVULATION/ *PROGESTERONE, blood/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ TIME FACTORS/ TRANSCORTIN

Plasma renin activity, plasma renin substrate and urinary aldosterone excretion in the menstrual cycle in relation to the concentration of progesterone and oestrogens in the plasma. Sundsfjord JA, et al.

Acta Endocrinol (Kbh) 71:519-29, Nov 72

ADOLESCENCE/ ADULT/ AGE FACTORS/ *ALDOSTERONE, urine/ ANGIOTENSIN, blood/ CHROMATOGRAPHY, ION EXCHANGE/ CORPUS LUTEUM HORMONES, blood/ ESTRADIOL, blood/ ESTRIOL, urine/ *ESTROGENS, blood/ FEMALE/ HUMAN/ IMMUNE SERUMS/ *MENSTRUATION/ METHODS/ OVULATION/ *PROGESTERONE, blood/ PROGESTERONE, metabolism/ PROTEIN BINDING/ RABBITS, immunology/ RADIOIMMUNOASSAY/ *RENIN, blood/ SODIUM, urine/ TIME FACTORS/ TRITIUM

The source of circulating progesterone and 17 -hydroxyprogesterone in hydatidiform mole. Tech ES, et al. *Acta Endocrinol (Kbh)* 71:773-80, Dec 72

ADULT/ CHROMATOGRAPHY/ FEMALE/ GONADOTROPINS, CHORIONIC, blood/ HUMAN/ *HYDATIDIFORM MOLE, metabolism/ *HYDROXYPROGESTERONE, metabolism/ METHODS/ OVARIAN CYSTS, metabolism/ PREGNANCY/ PROGESTERONE, blood/ *PROGESTERONE, metabolism/ PROTEIN BINDING/ THECA CELL TUMOR, metabolism/ TIME FACTORS/ TROPHOBLAST, metabolism

Assay of protein hormones related to human reproduction: problems of specificity of assay methods and reference standards. Report of a meeting. *Acta Endocrinol (Kbh)* 71:625-37, Dec 72

BIOLOGICAL ASSAY/ *FSH, analysis/
GLYCOPROTEINS, analysis/
*GONADOTROPINS, CHORIONIC, analysis/
HUMAN/ IMMUNOASSAY/ *LH, analysis/
METHODS/ MOLECULAR WEIGHT/
*PLACENTAL LACTOGEN, analysis/
*PROLACTIN, analysis/ PROTEIN BINDING/
*THYROTROPIN, analysis

Free estriol in human pregnancy plasma. Wilkinson M, et al. *Am J Obstet Gynecol* 114:867-72, 1 Dec 72
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COMPETITIVE/ BLOOD/ DELIVERY/
*ESTRIOL, blood/ FEMALE/ FETAL
DISEASES, diagnosis/ GESTATIONAL AGE/
HUMAN/ METHODS/ *PREGNANCY/
PREGNANCY COMPLICATIONS, blood/
PROTEIN BINDING/ TRITIUM/ UMBILICAL
CORD

Determination of adenosine 3':5'-cyclic monophosphate in cerebral tissues by saturation analysis. Assessment of a method using a binding protein from ox muscle. Weller M, et al. *Biochem J* 129:113-21, Aug 72
*ADENOSINE CYCLIC 3',5'
MONOPHOSPHATE, analysis/ ADENOSINE
TRIPHOSPHATE/ ADENYL CYCLASE,
analysis/ ANIMAL EXPERIMENTS/ BRAIN,
enzymology/ *BRAIN CHEMISTRY/ CATTLE/
CEREBRAL CORTEX, analysis/ GUANOSINE
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